

1/53

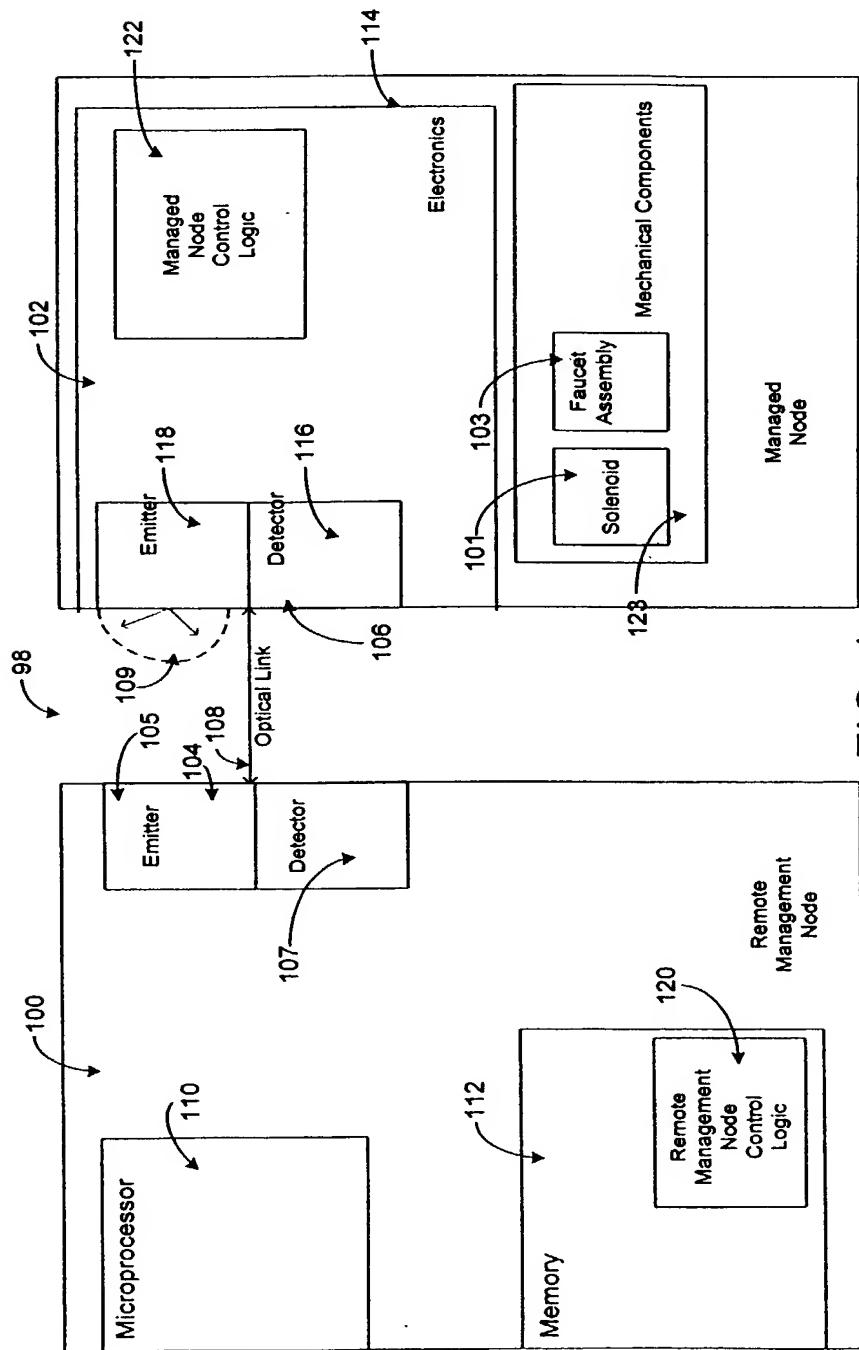


FIG. 1

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## Event Loop

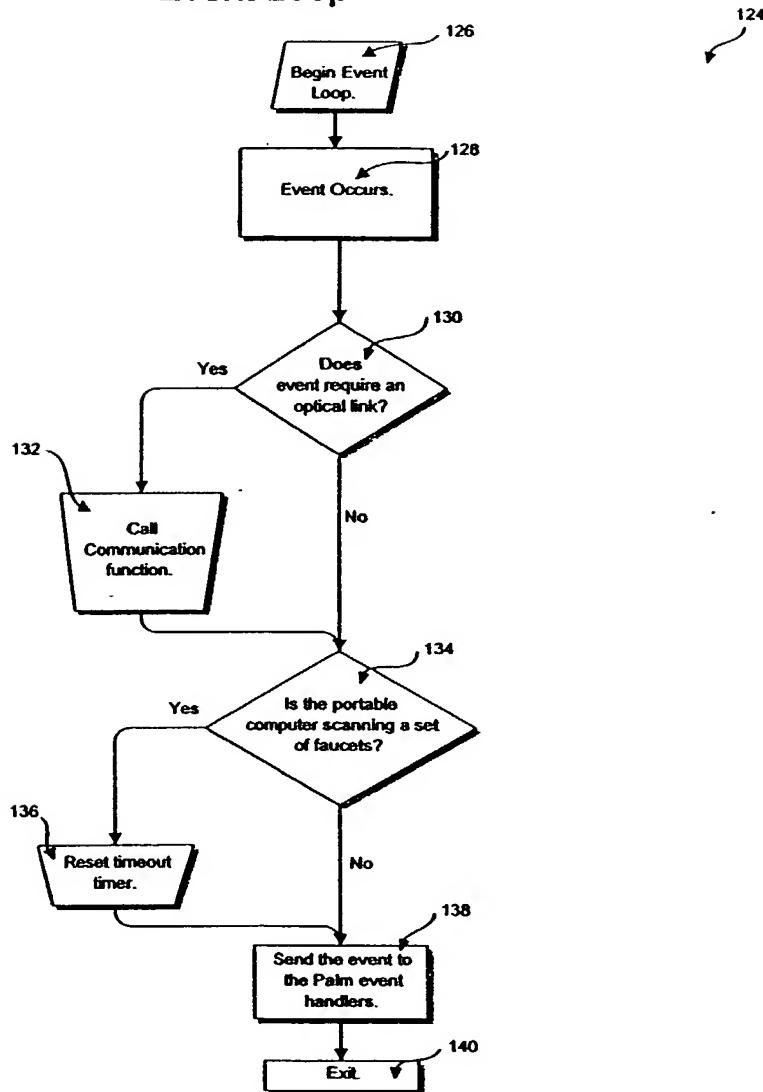


Fig. 2

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### Communication Function

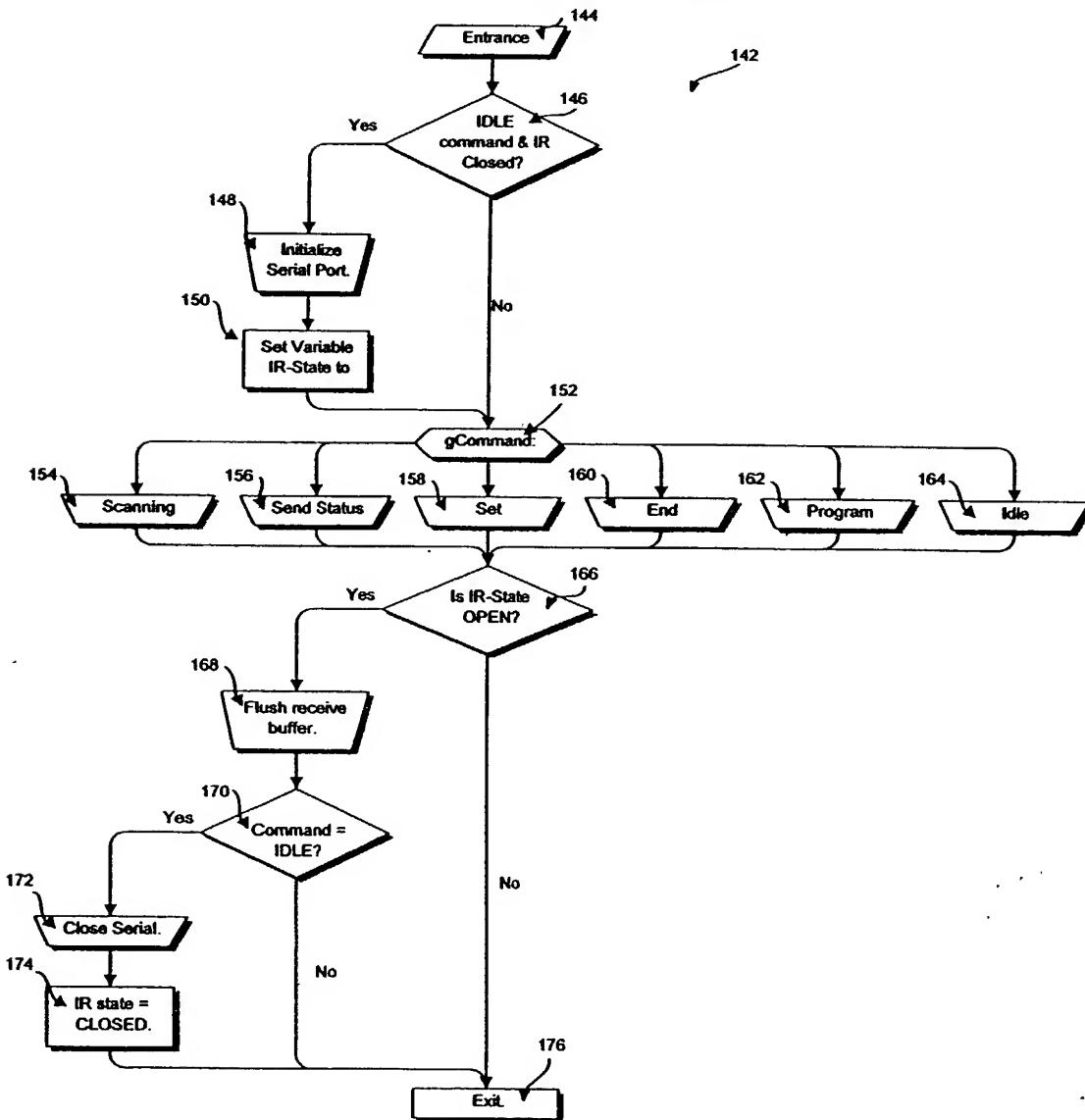


Fig. 3

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### Send Status Function

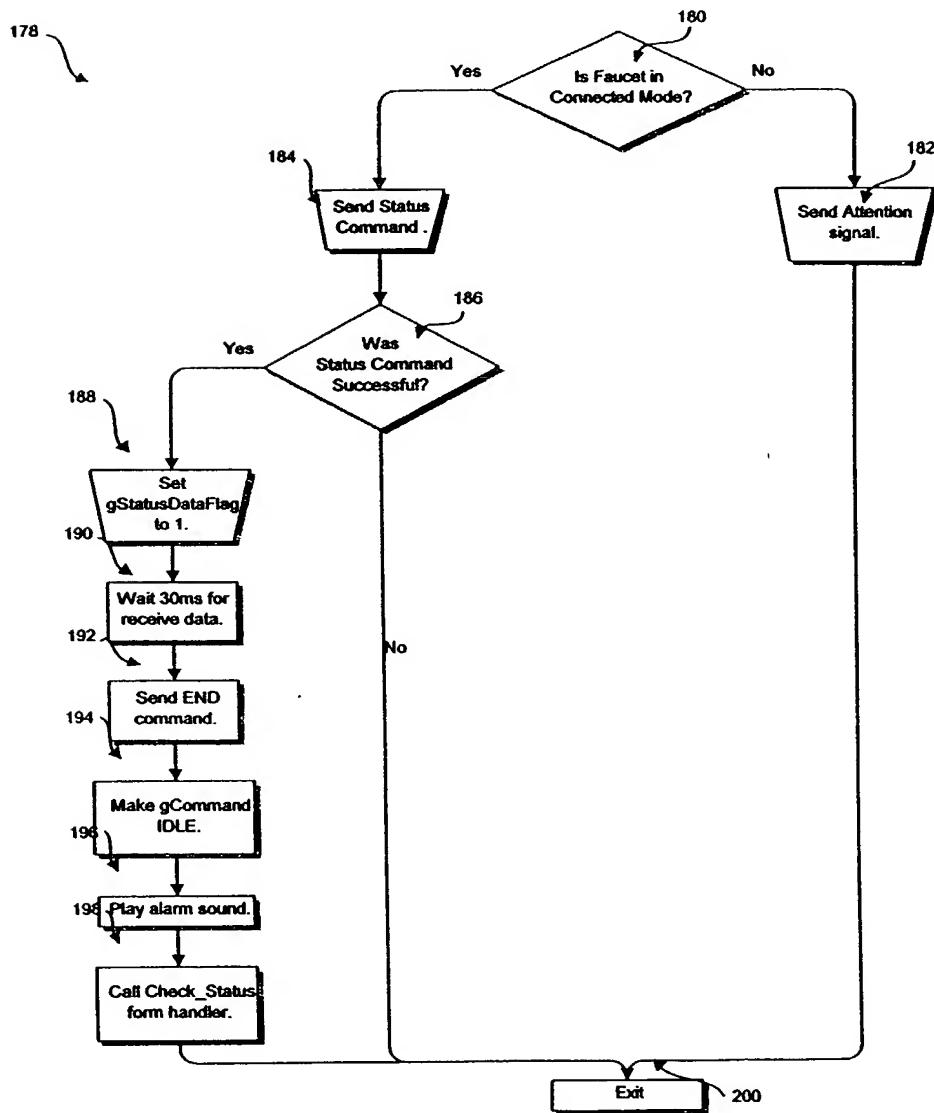


Fig. 4

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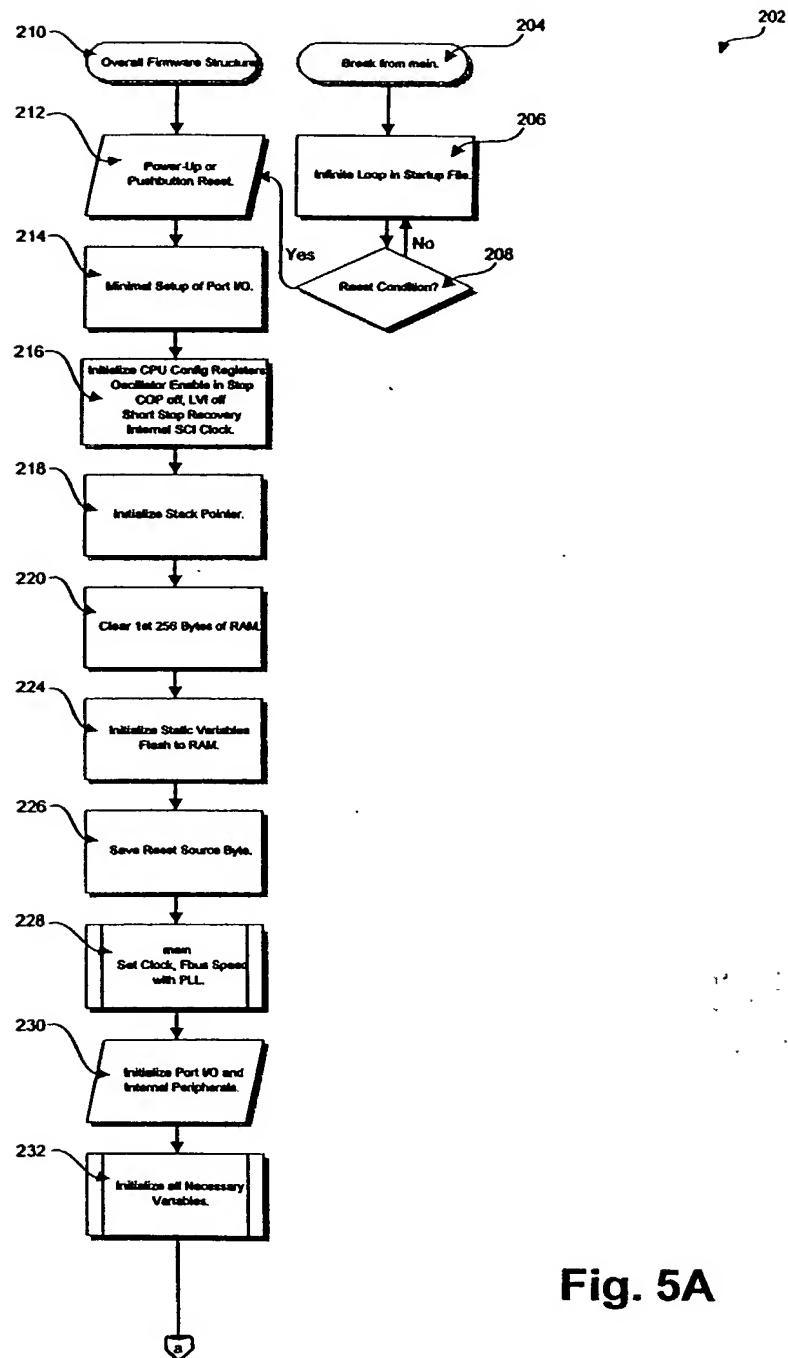
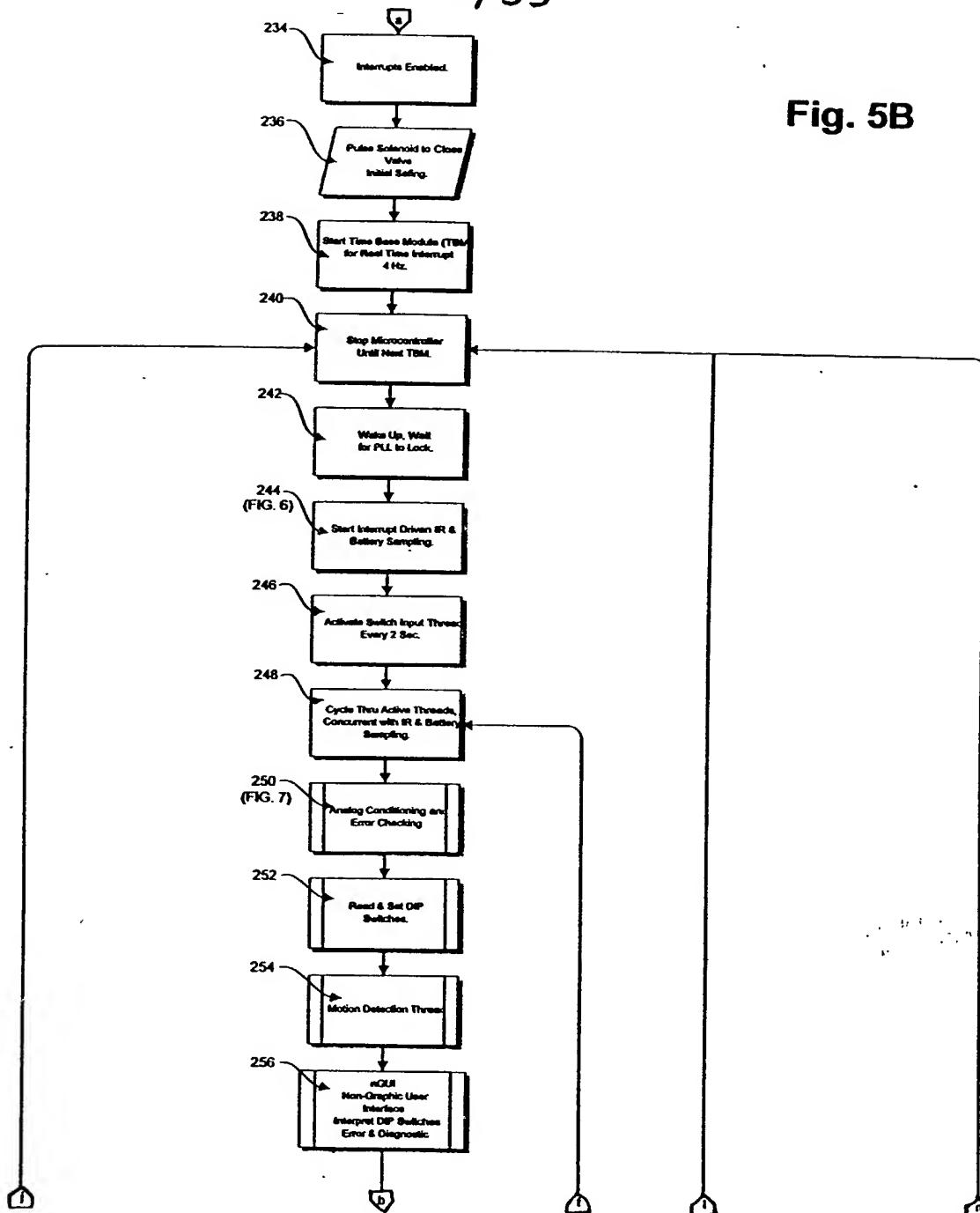


Fig. 5A

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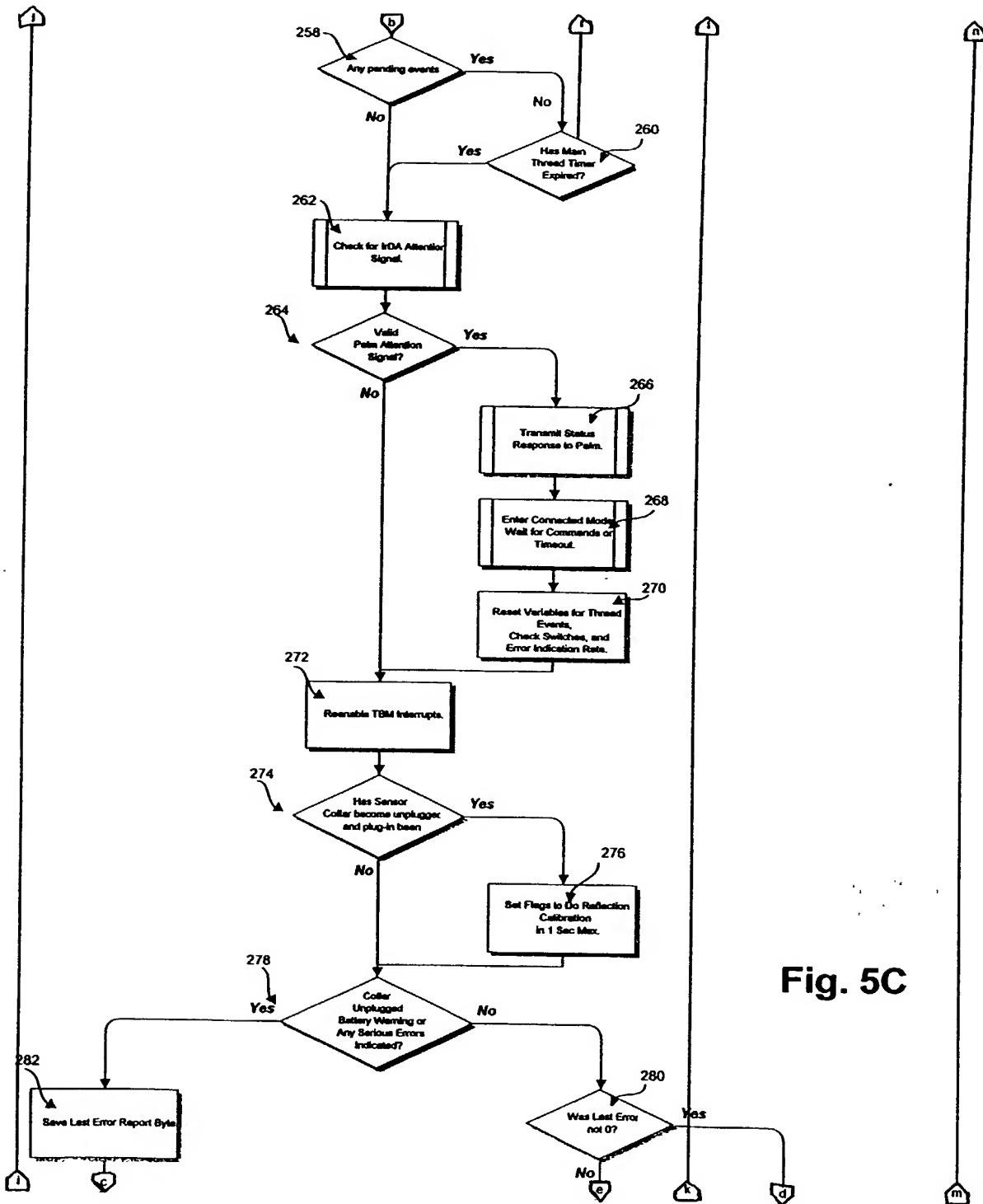


Fig. 5C

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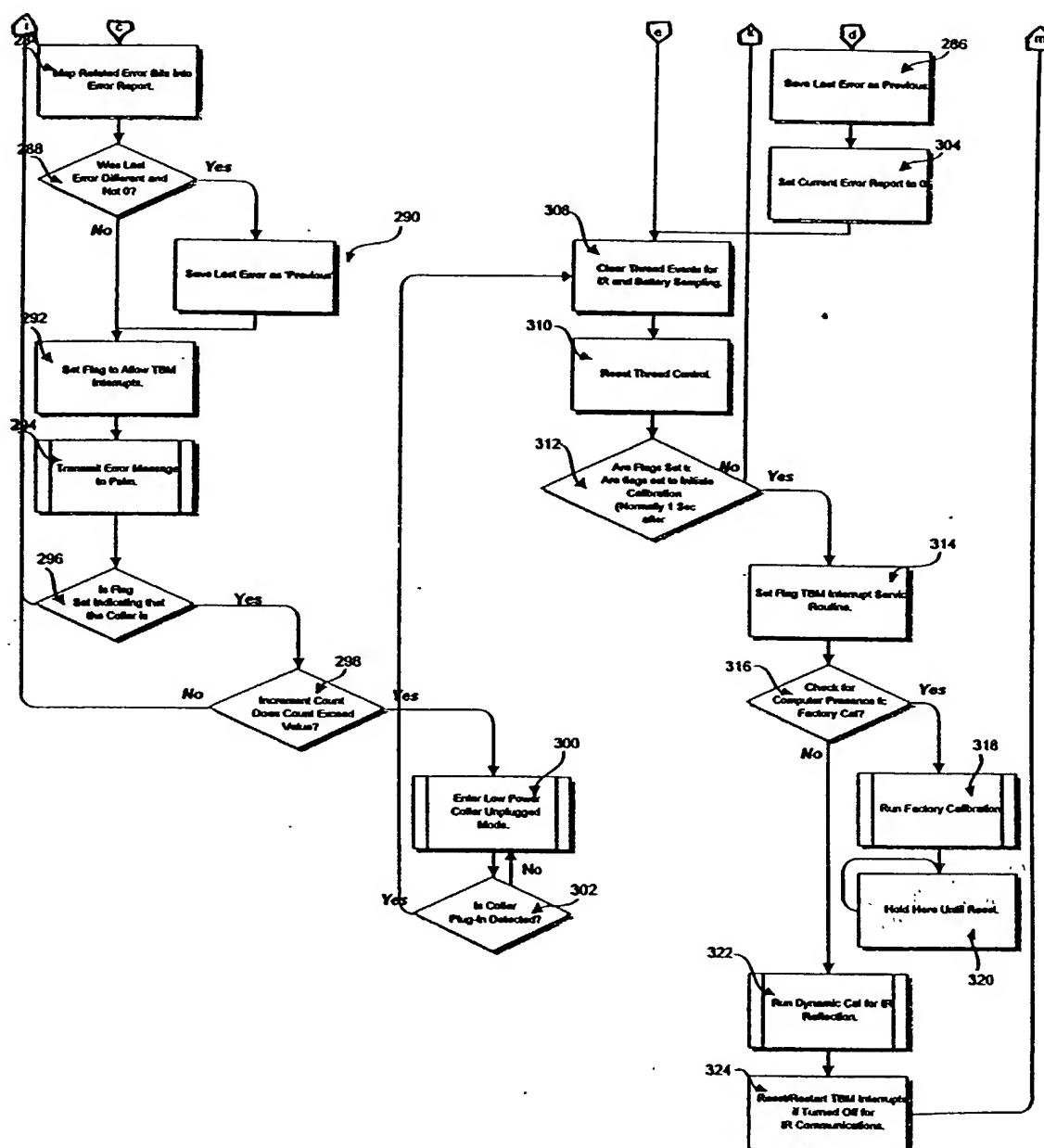
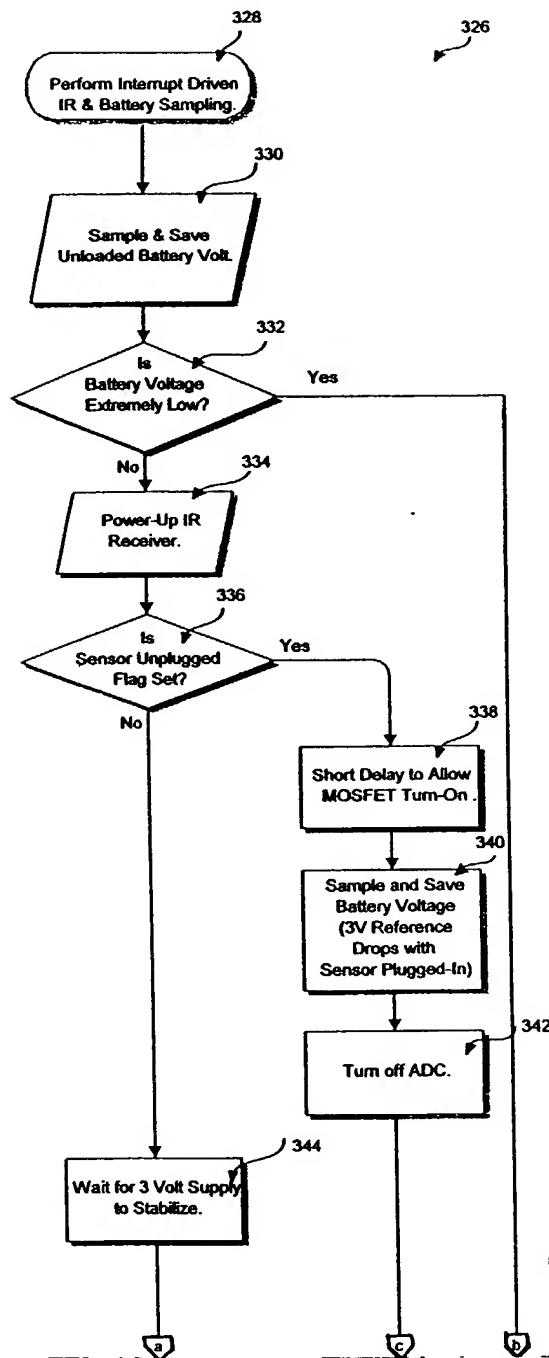


Fig. 5D

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**Fig. 6A**

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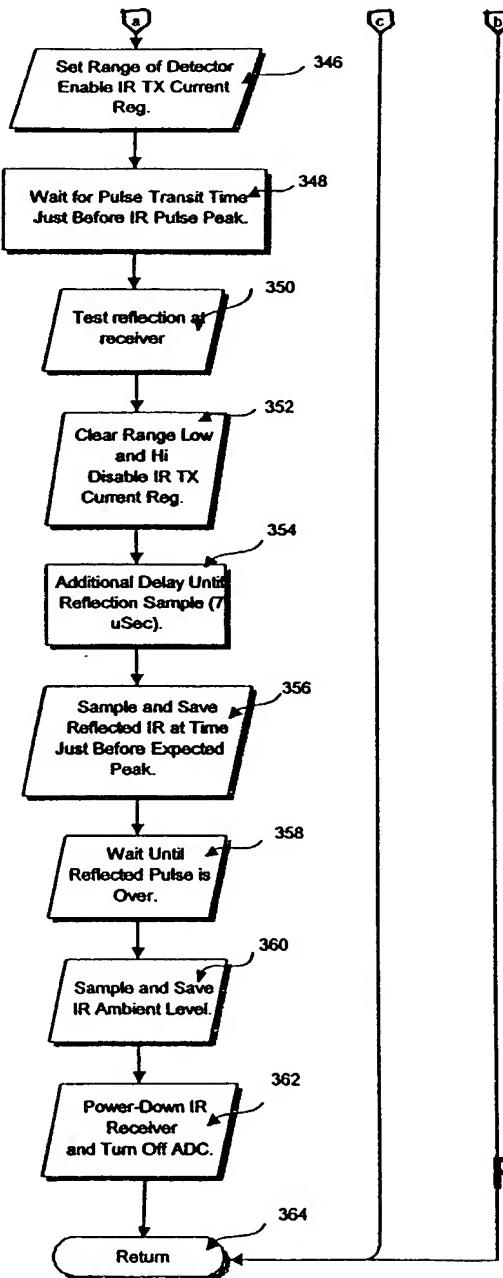
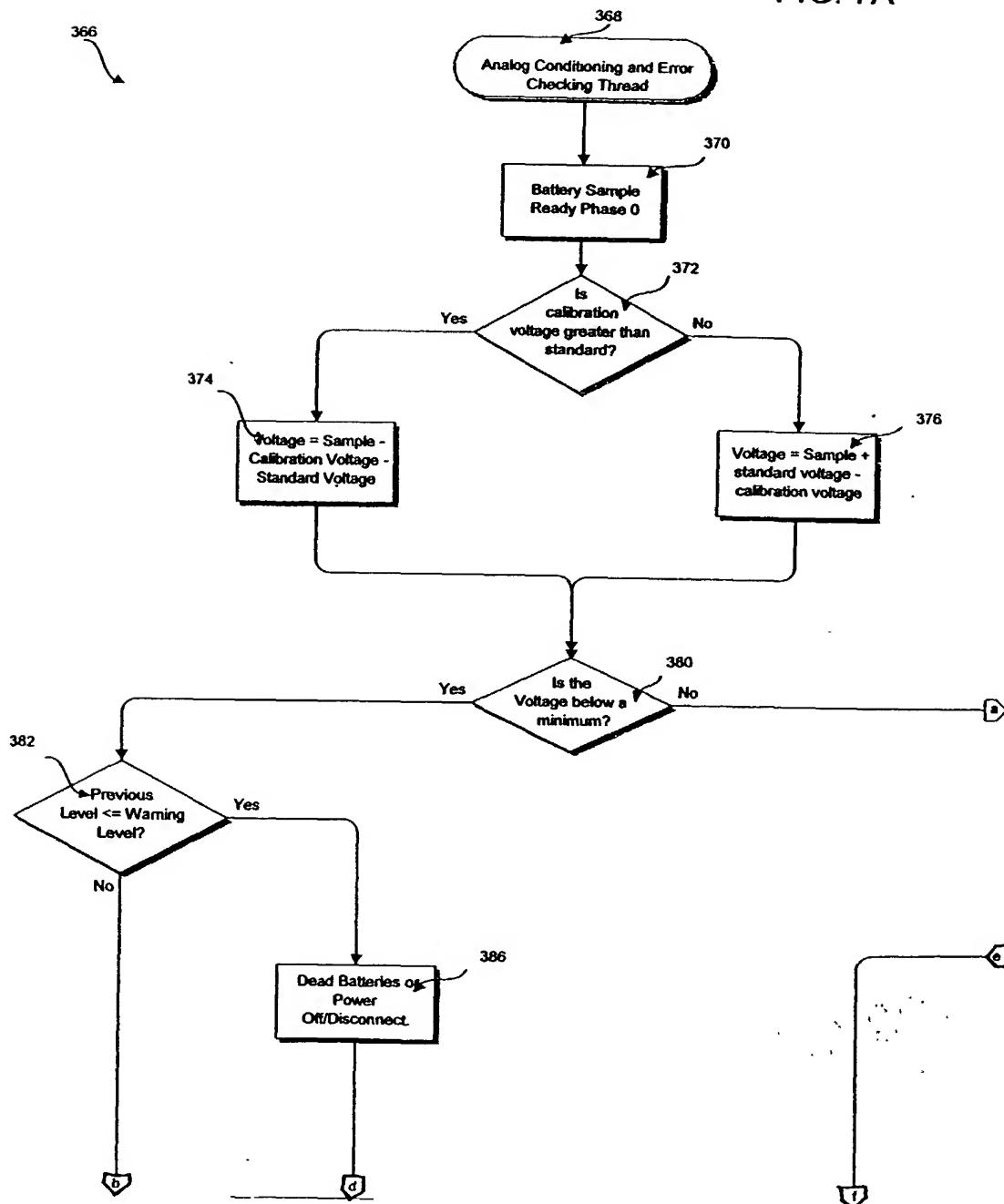


Fig. 6B

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FIG. 7A



Attorney Docket No.: 00-0895.26/US

*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*

Serial No.: 10/035,370

Inventor: Patterson, et al.

Do Te Kim Phone: (256) 535-1100

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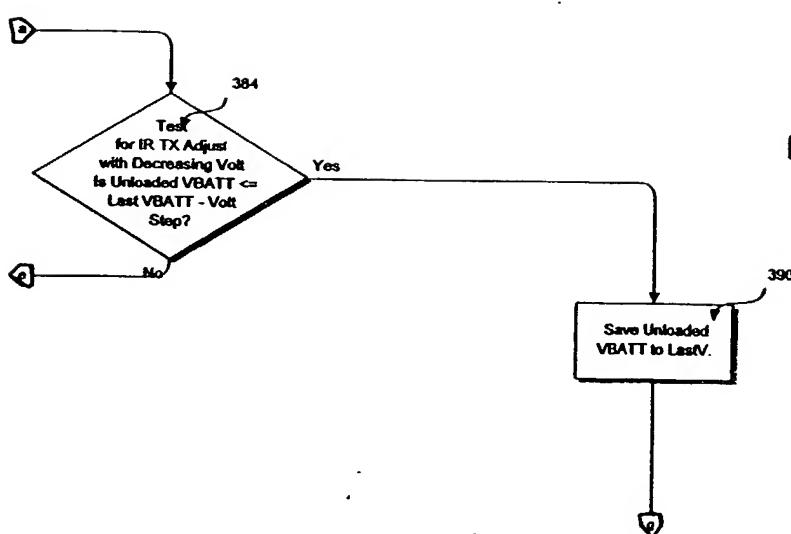


FIG. 7B

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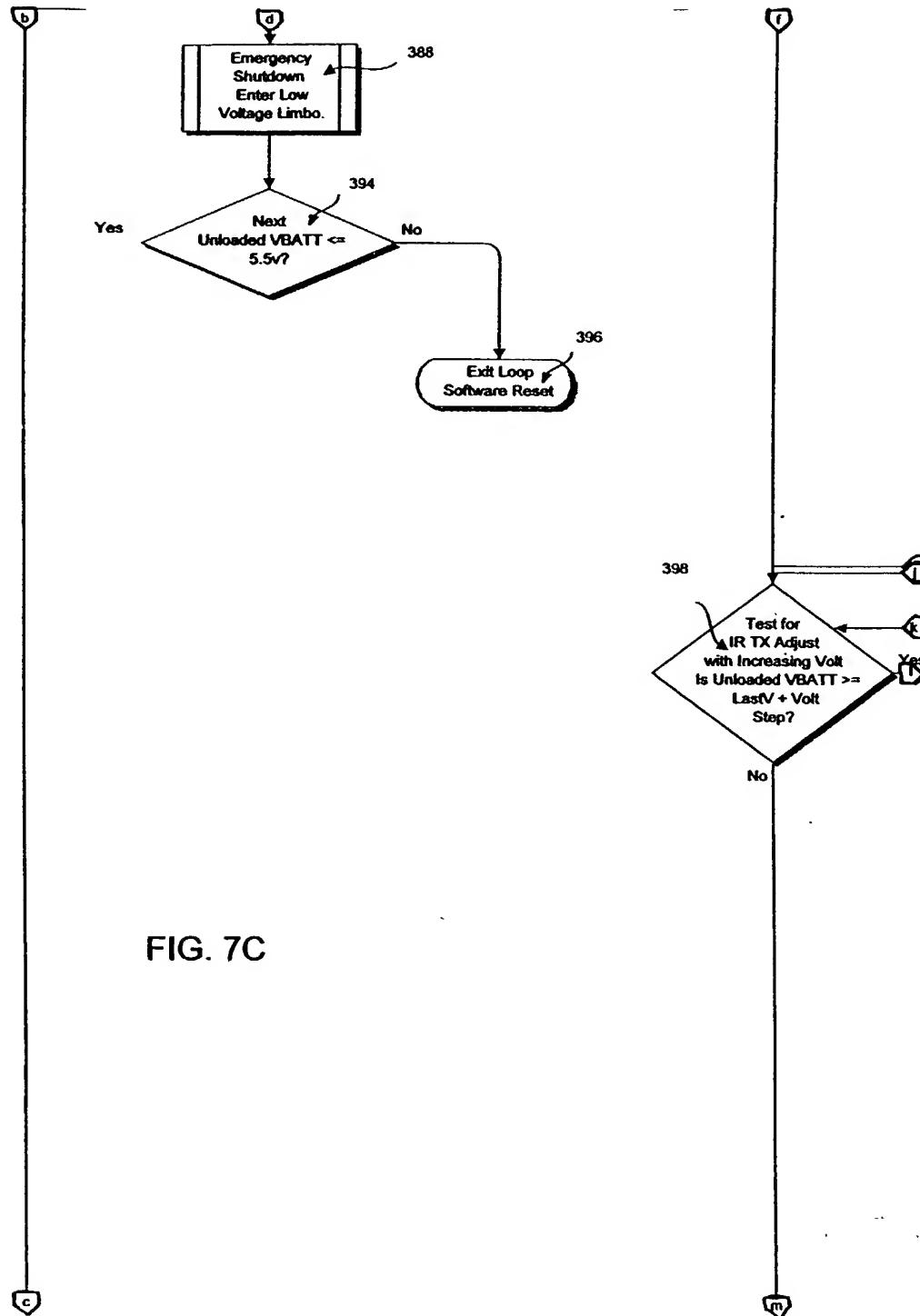


FIG. 7C

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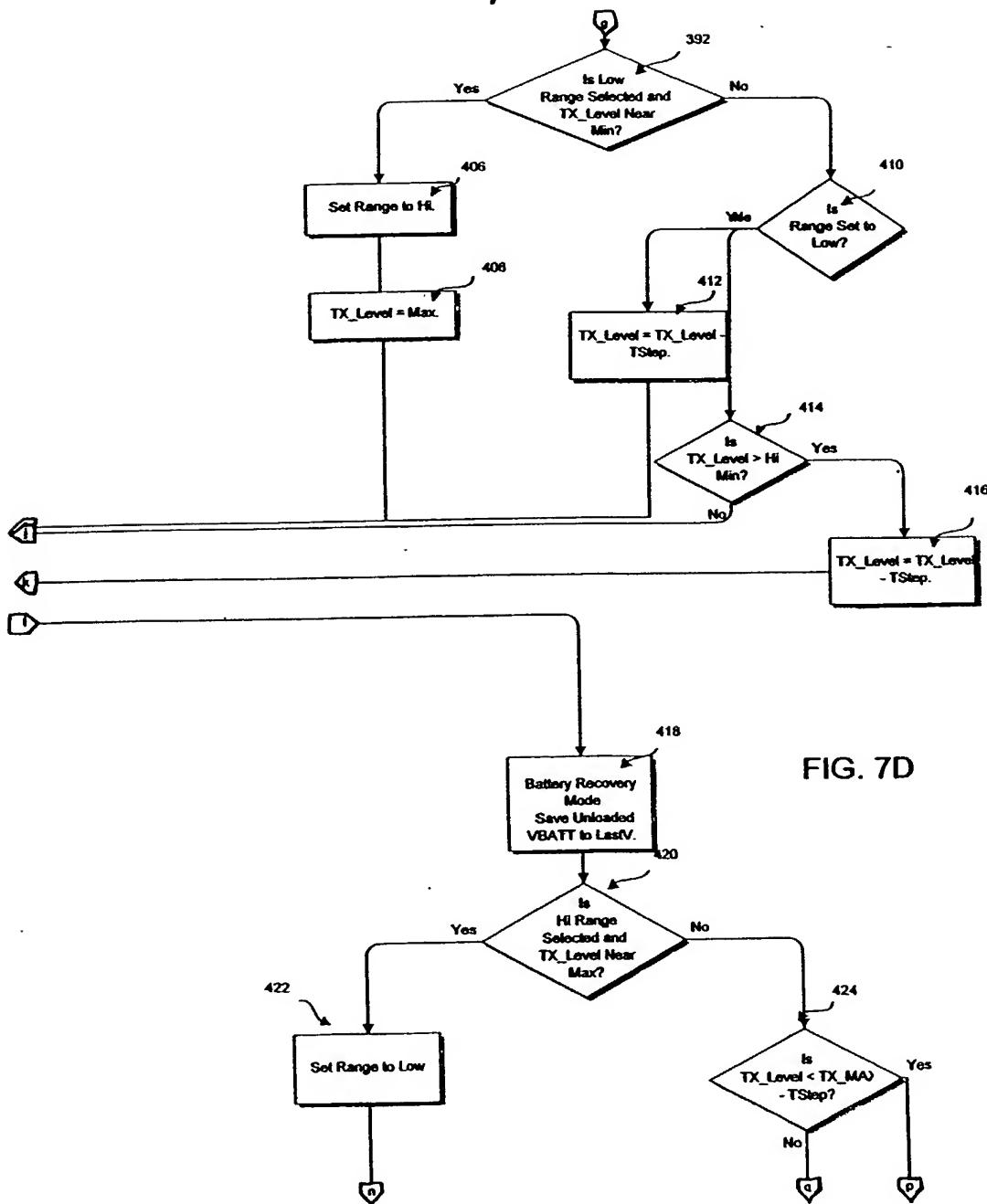


FIG. 7D

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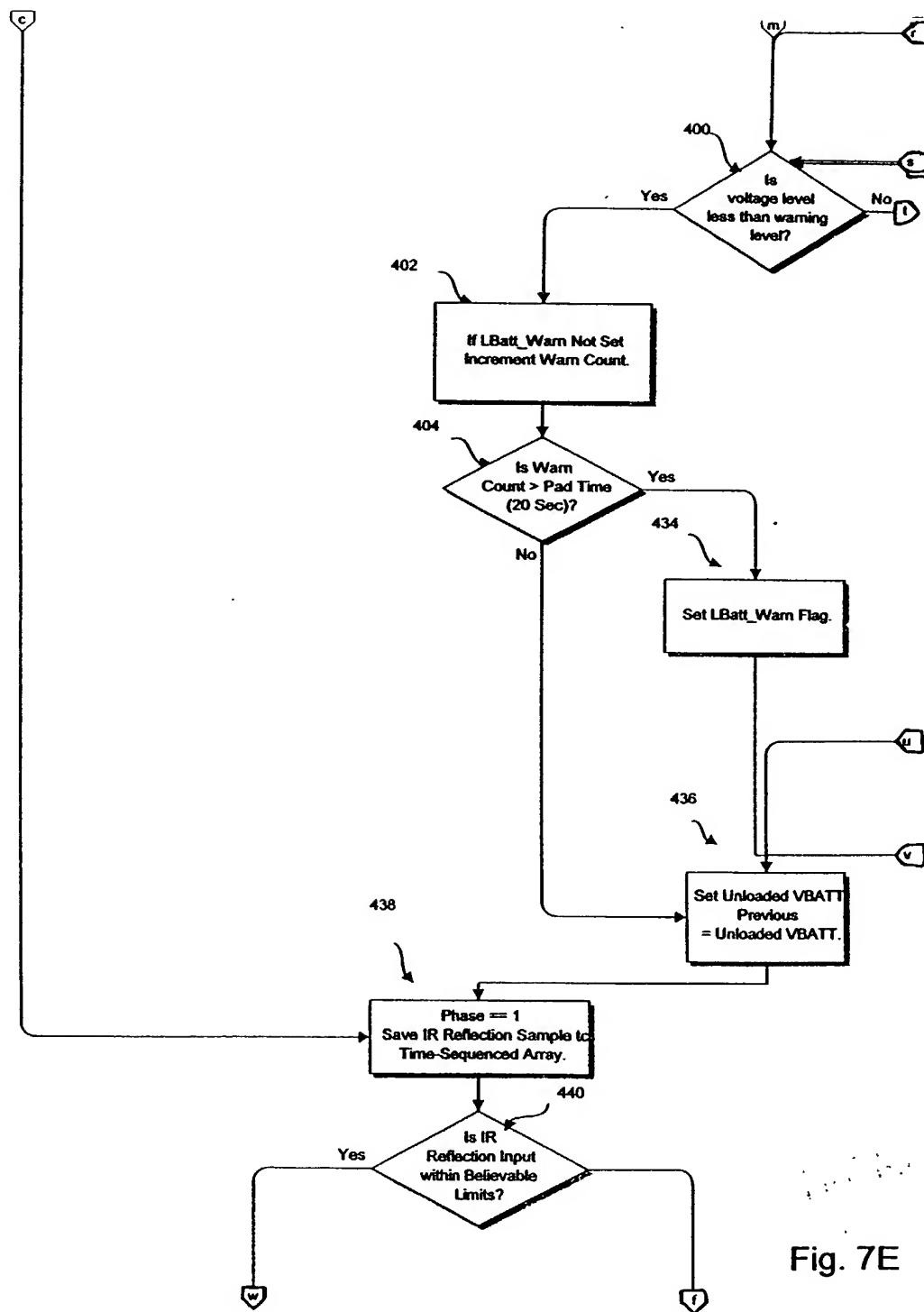


Fig. 7E

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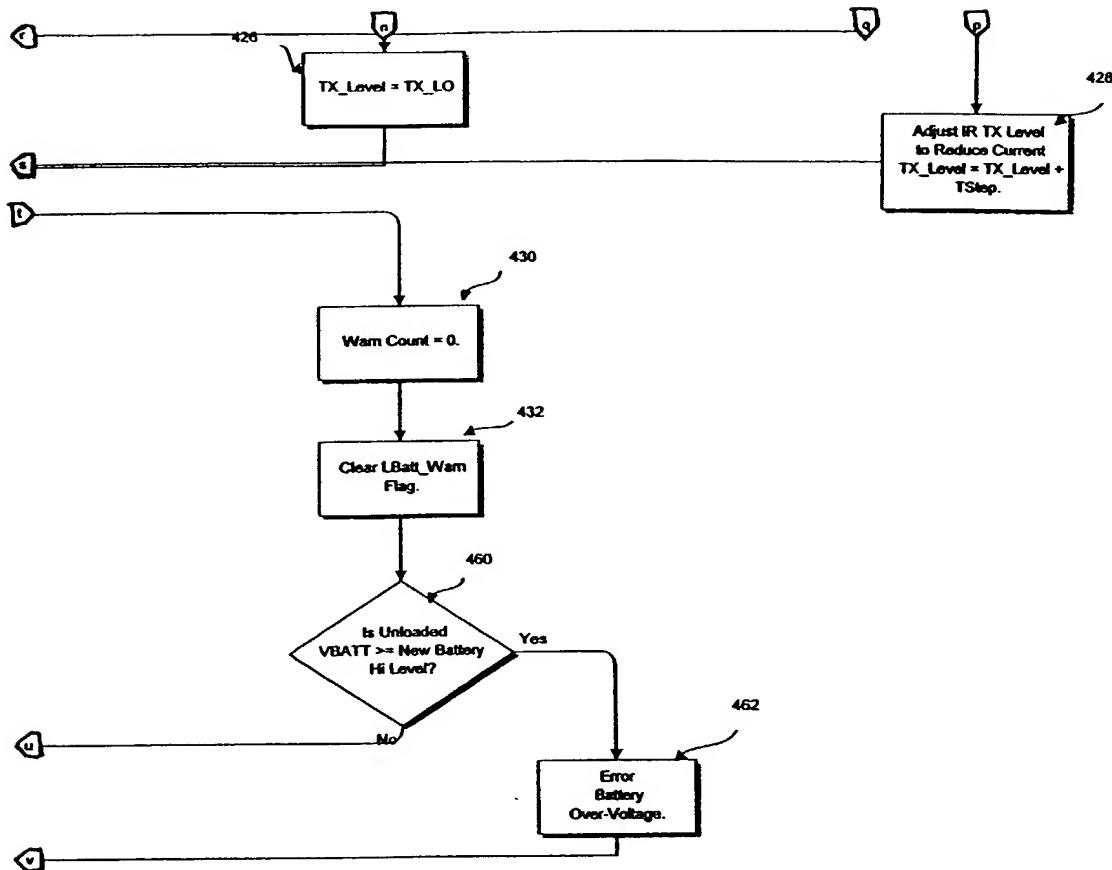


FIG. 7F

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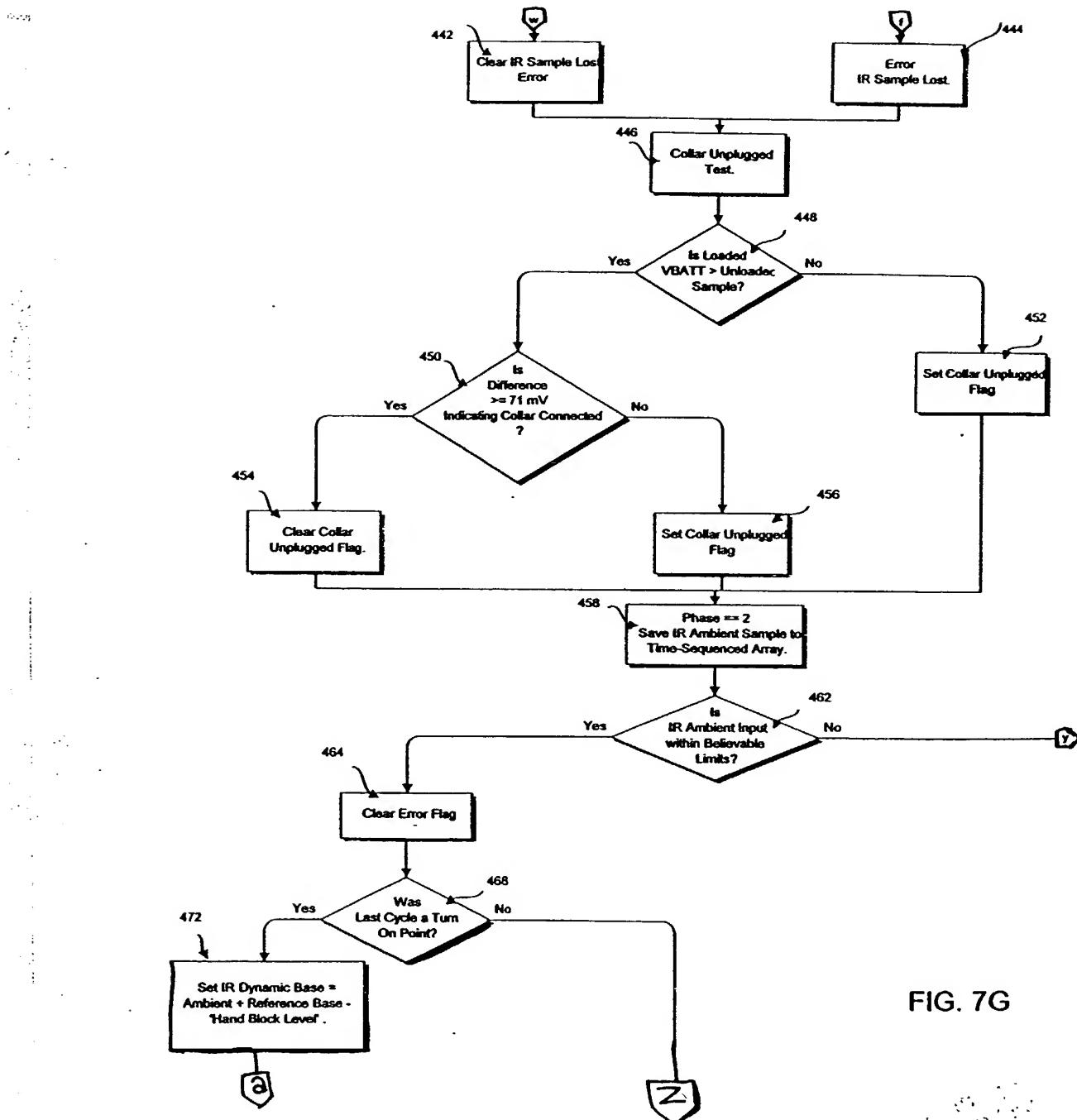


FIG. 7G

Attorney Docket No.: 00-0895.26/US  
*System and Method for Wireless Data Exchange Between An Electronic Appliance and Handheld Device*  
Serial No. 10/035,370  
Inventor: Patterson, et al.  
Do Te Kim Phone: (256) 535-1100

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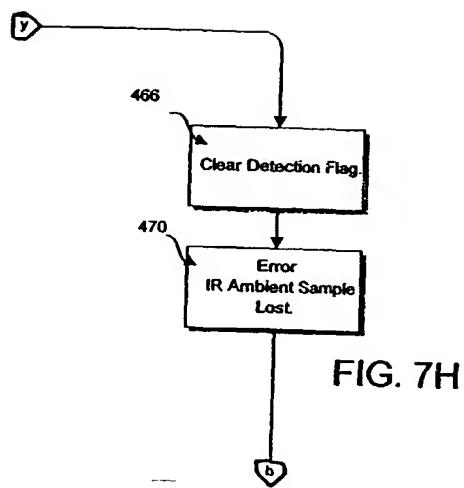


FIG. 7H

Attorney Docket No. 00-0895 26/US  
**System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device**  
Serial No. 10/035,370  
Inventor: Patterson, et al.  
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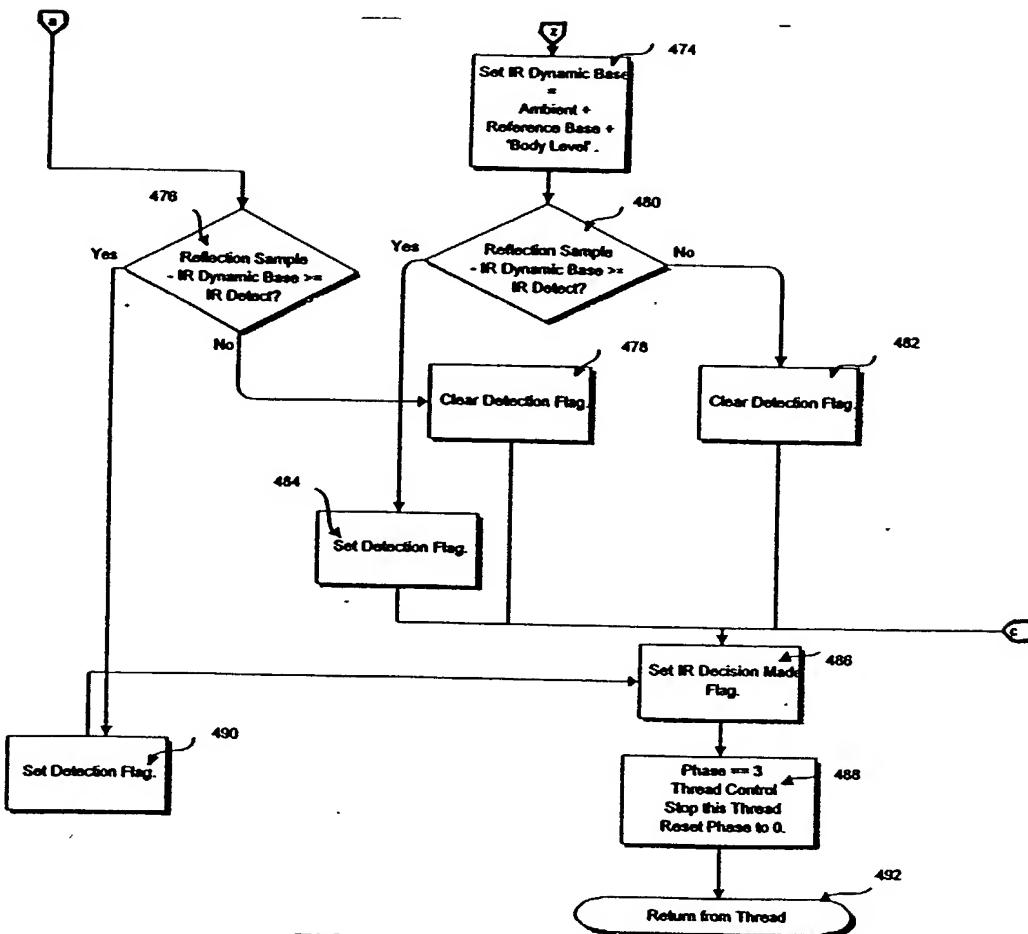


FIG. 7I

Attorney Docket No.: 00-0895.26/US  
*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*  
Serial No. 10/035,370  
Inventor: Patterson, et al.  
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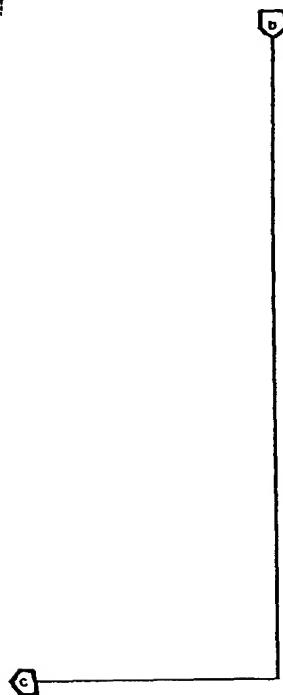
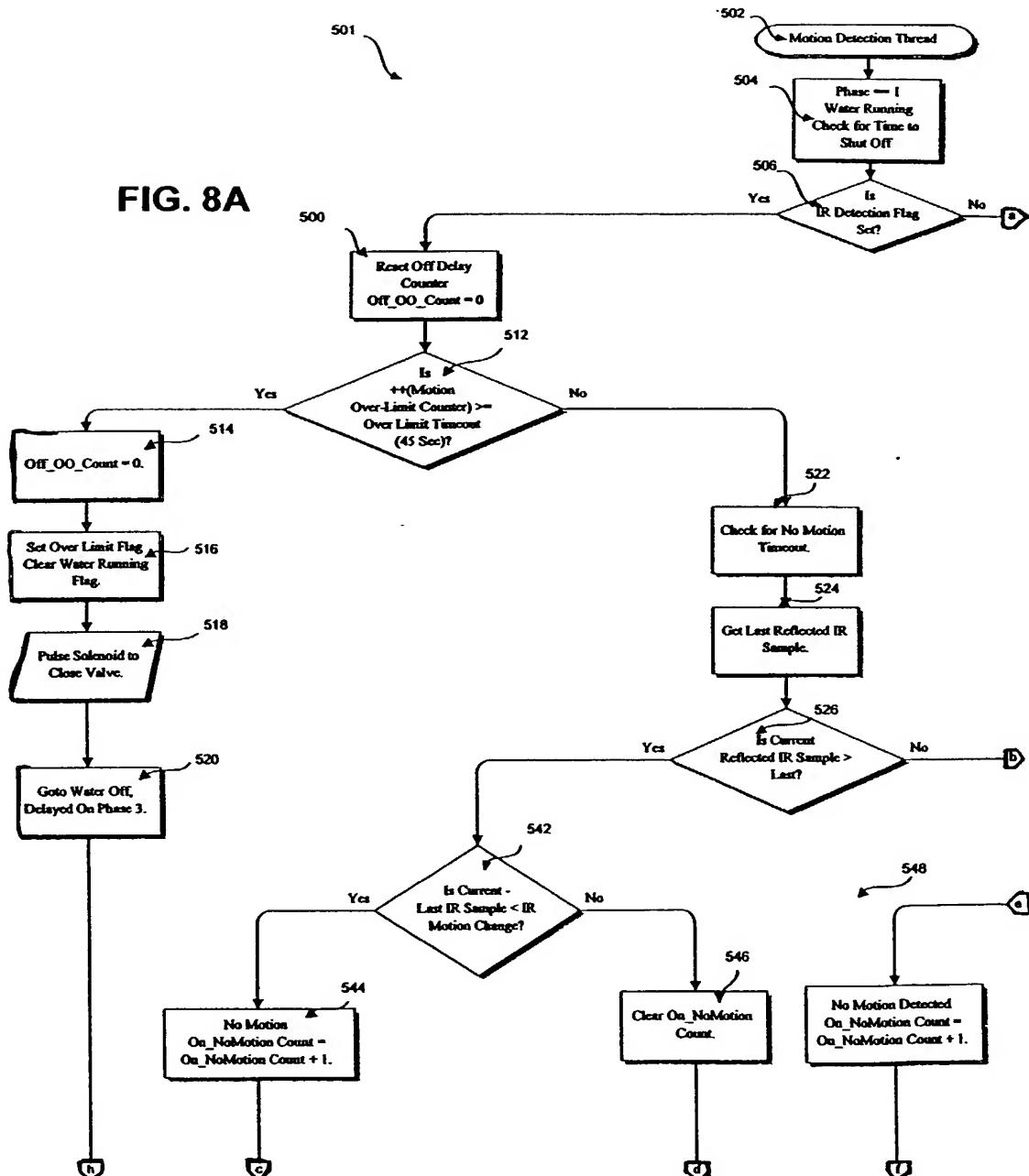


FIG. 7J

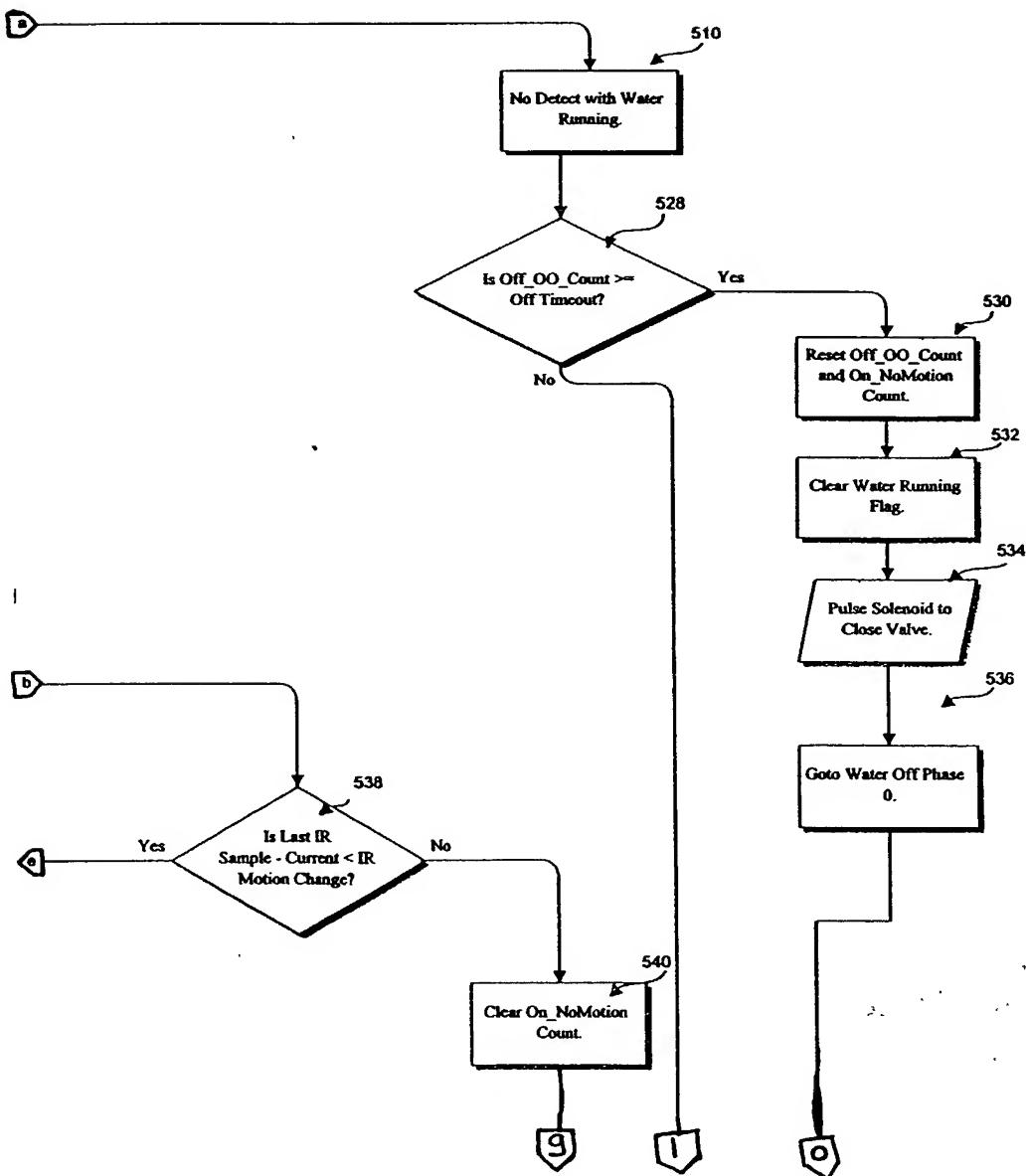
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No. 10/035,370  
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FIG. 8B



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*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*  
S. No. 10/035,370  
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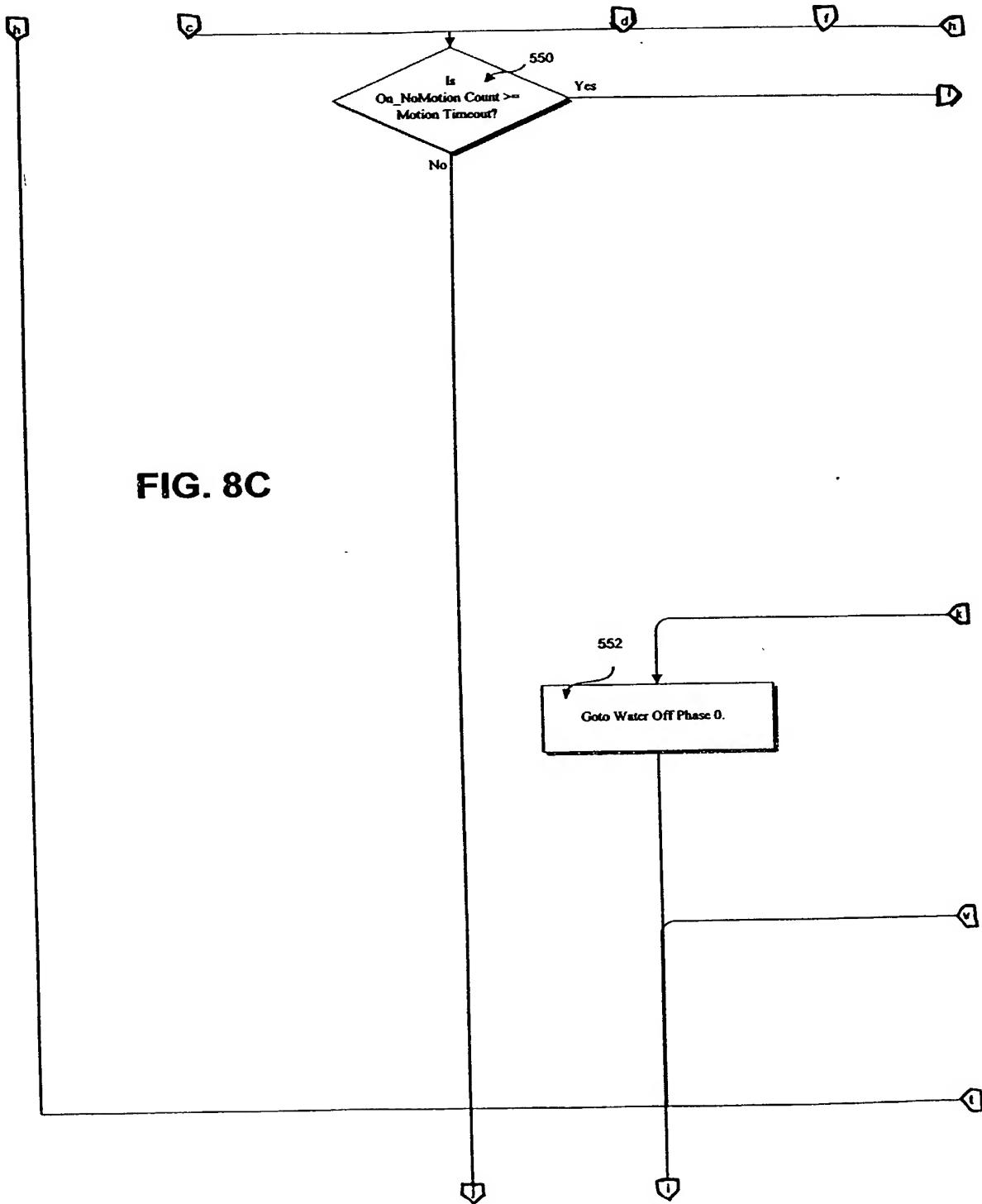


FIG. 8C

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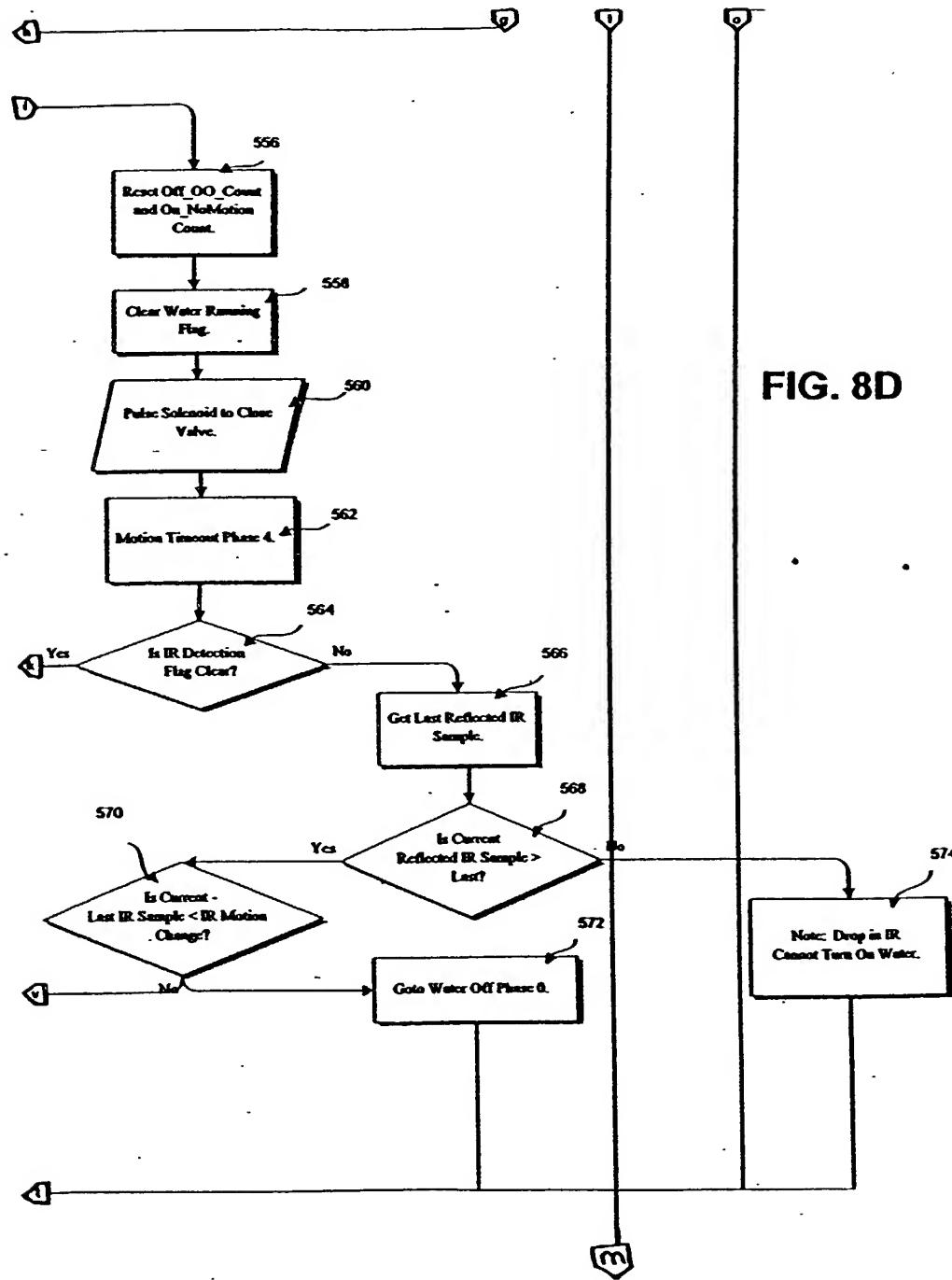
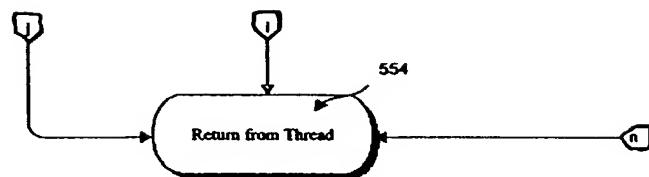


FIG. 8D

Attorney Docket No.: 00-0895.26/US  
*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*  
Serial No.: 10/035,370  
Inventor: Patterson, et al.  
Do Te Kim Phone: (256) 535-1100

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**FIG. 8E**

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*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*

Serial No.: 10/035,370

Inventor: Patterson, et al.

Do Te Kim Phone: (256) 535-1100

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**FIG. 8F**

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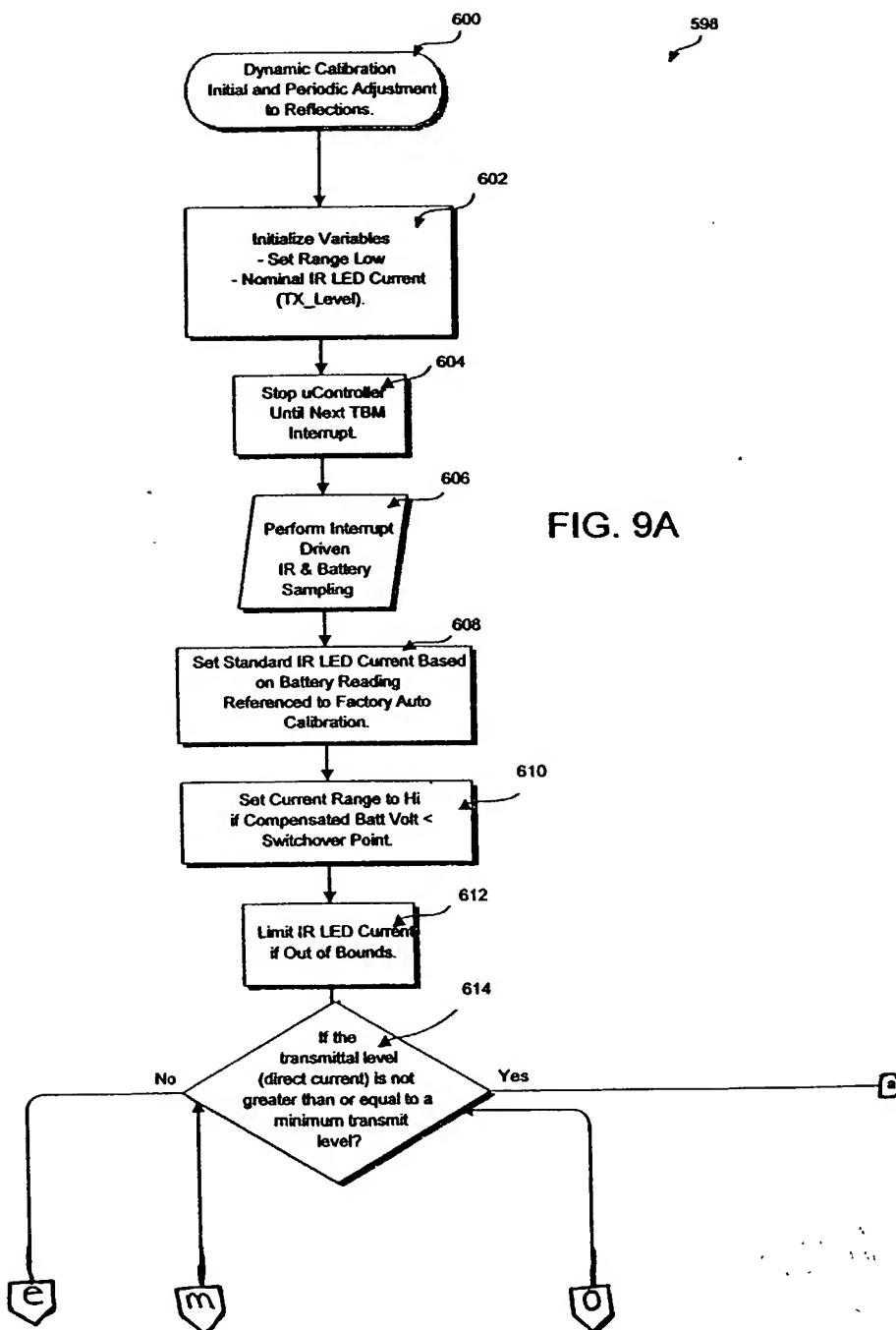
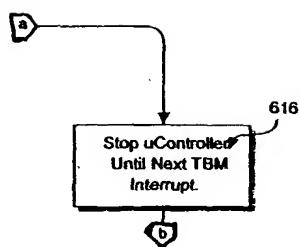


FIG. 9A

Attorney Docket No.: 00-0895.26/US  
*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*  
No. 10/035,370  
or: Patterson, et al.  
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FIG. 9B



Attorney Docket No.: 00-0895.26/US  
**System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device**  
 Serial No. 10/035,370  
 Inventor: Patterson, et al.  
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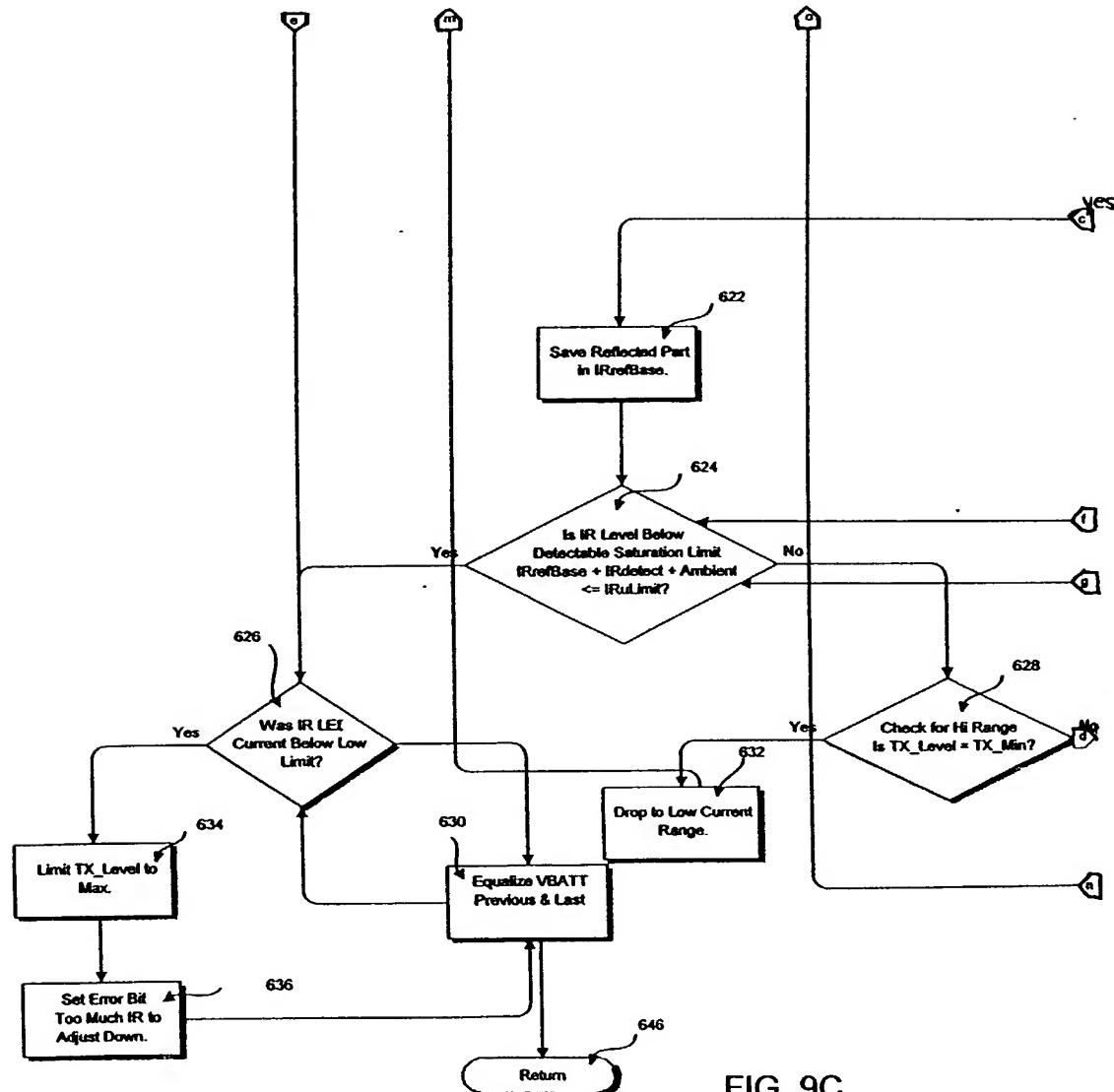


FIG. 9C

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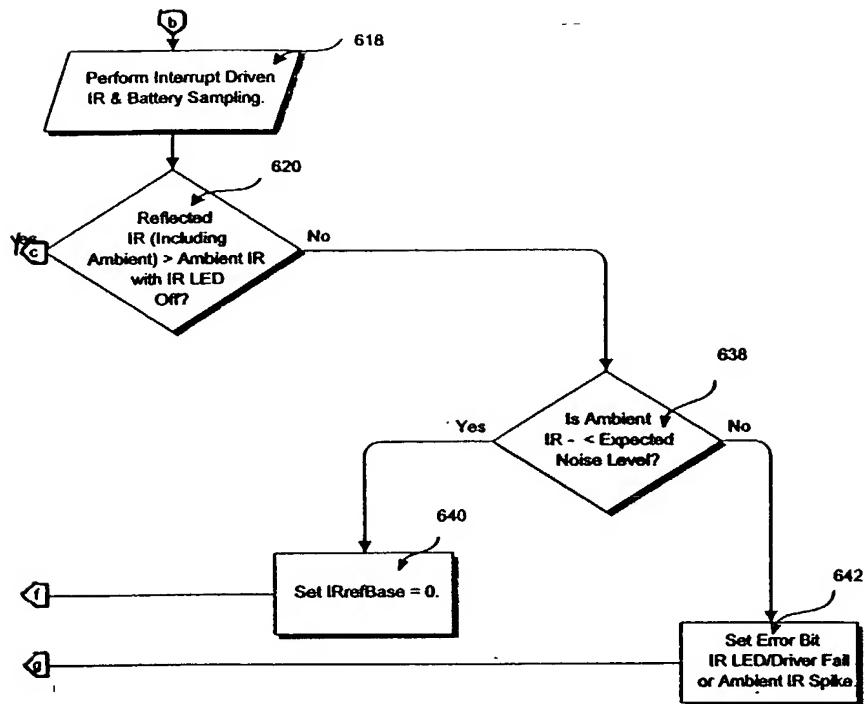
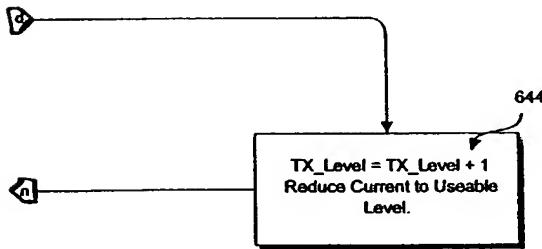


FIG. 9D



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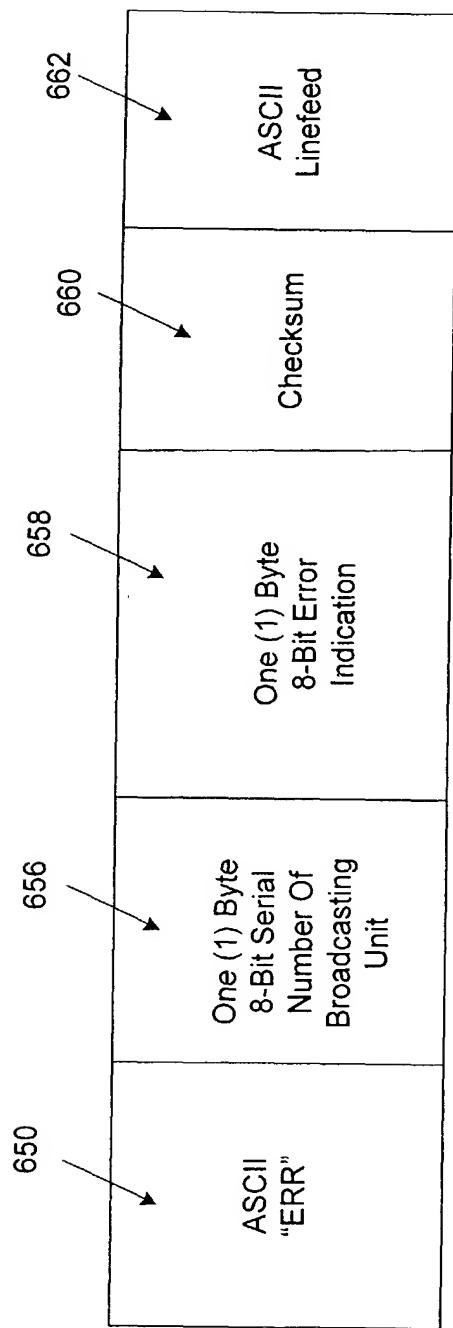


FIG. 10

Attorney Docket No.. 00-0895.26/US  
*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*  
Docket No. 10/035,370  
Inventor: Patterson, et al.  
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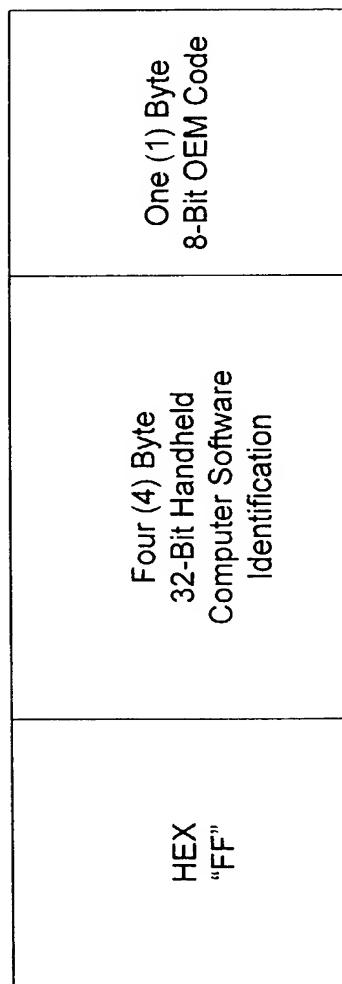


FIG. 11

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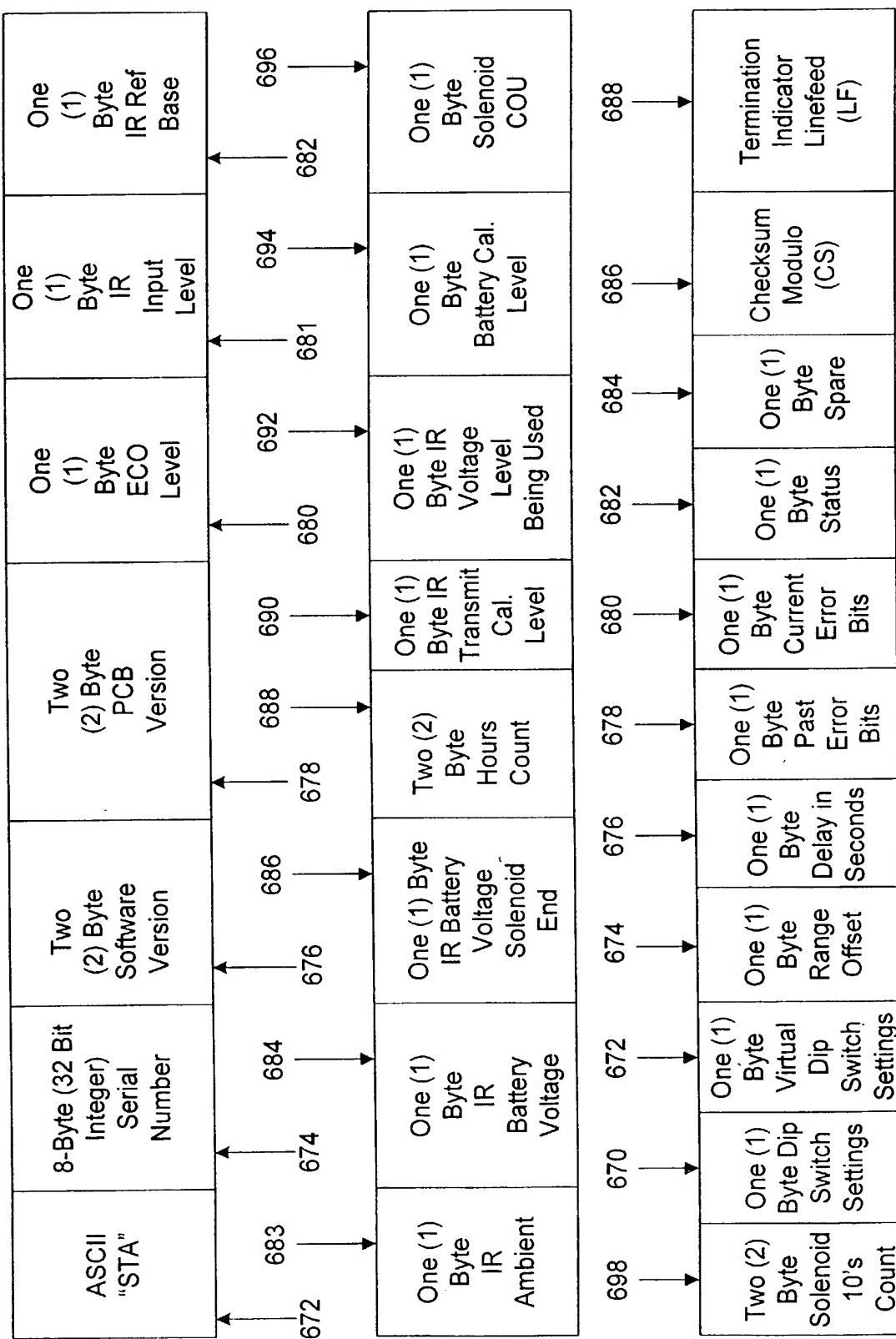


FIG. 12

Attorney Docket No 00-0895.26/US  
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Serial No. 10/035,370  
Patterson, et al.  
D.C. 20001 Phone: (256) 535-1100

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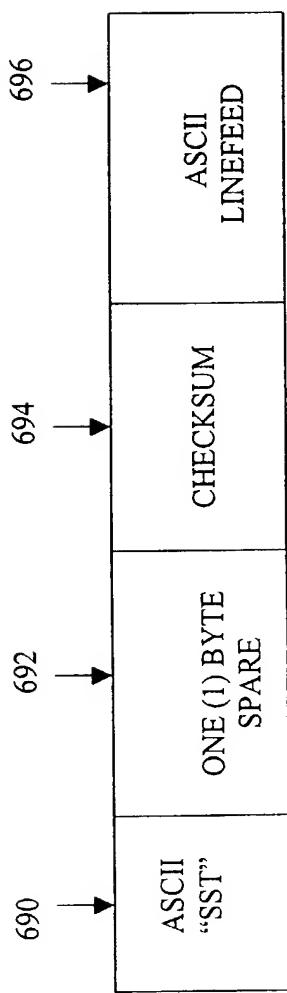


FIG. 13

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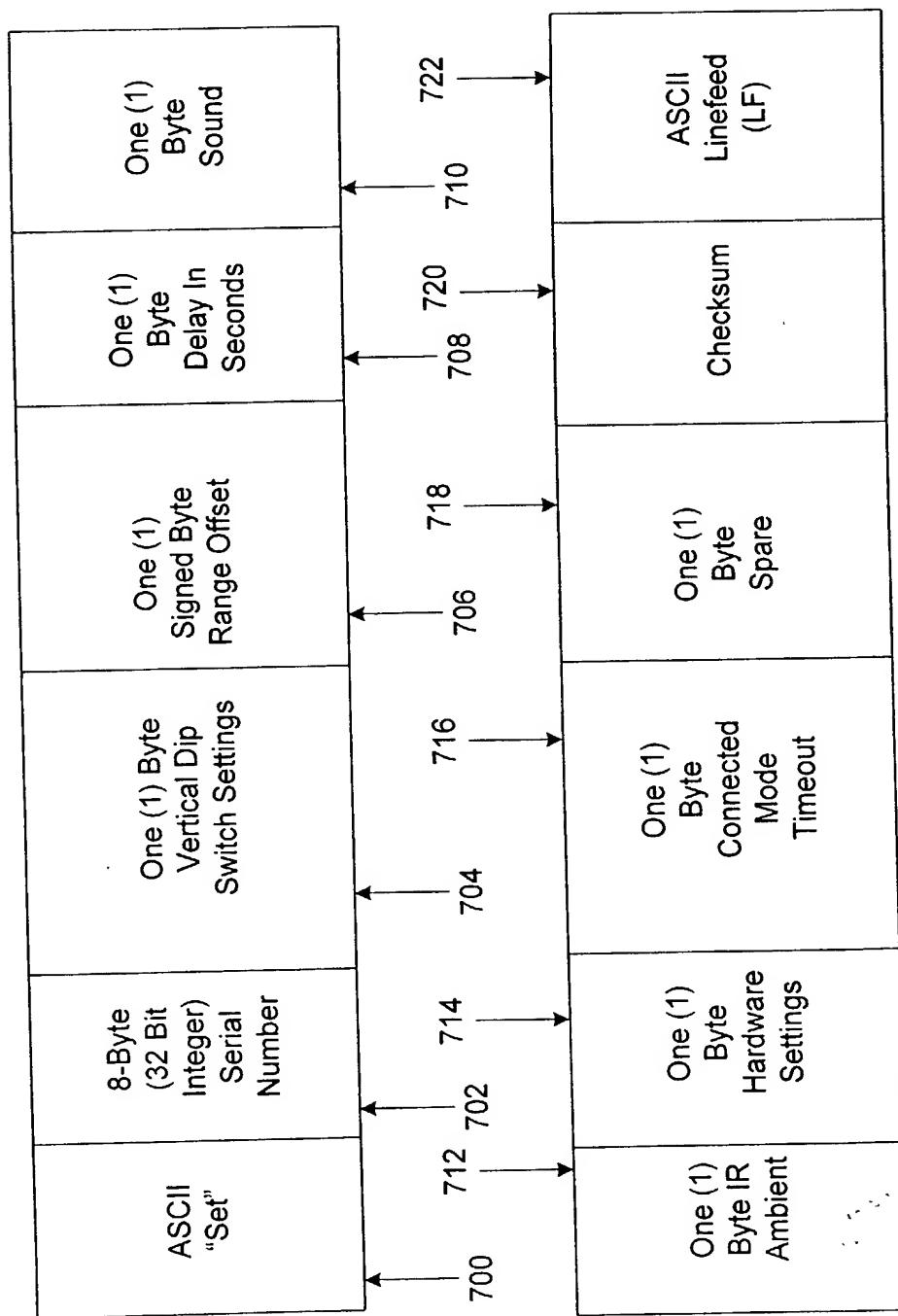


FIG. 14

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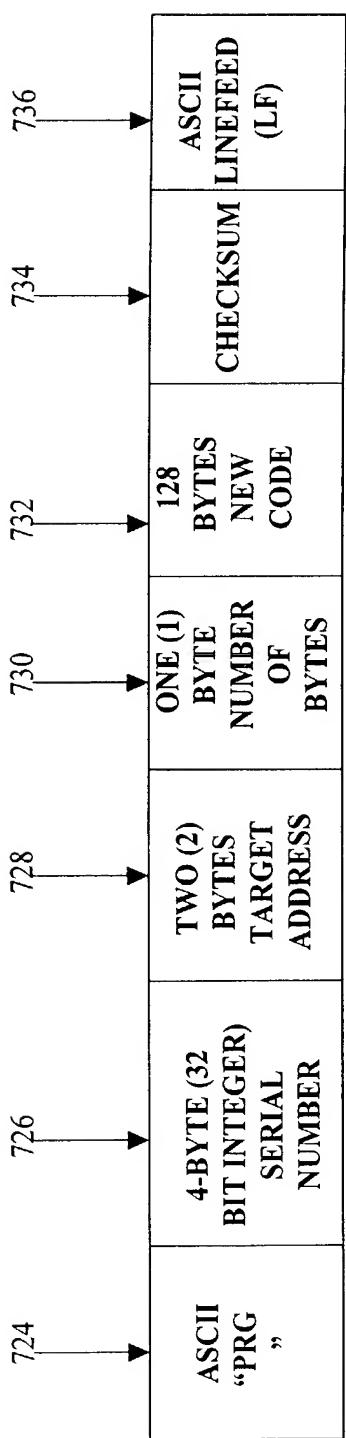


FIG. 15

Attorney Docket No.: 00-0895.26/US  
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Serial No. 10/035,370  
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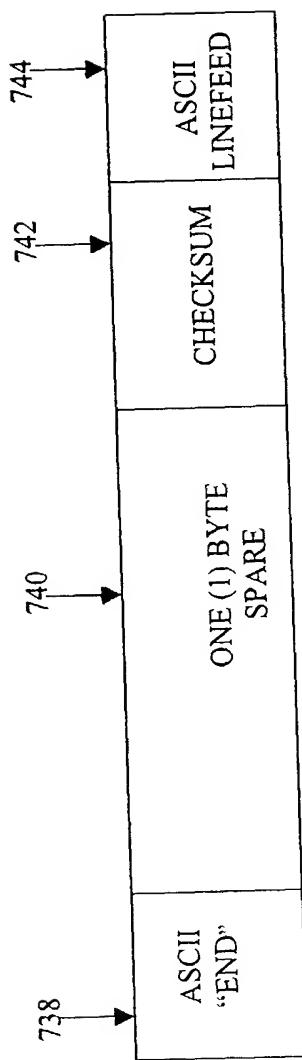


FIG. 16

Attorney Docket No. 00-0895.26/US  
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Serial No. 10/035,370  
Inventor: Patterson, et al.  
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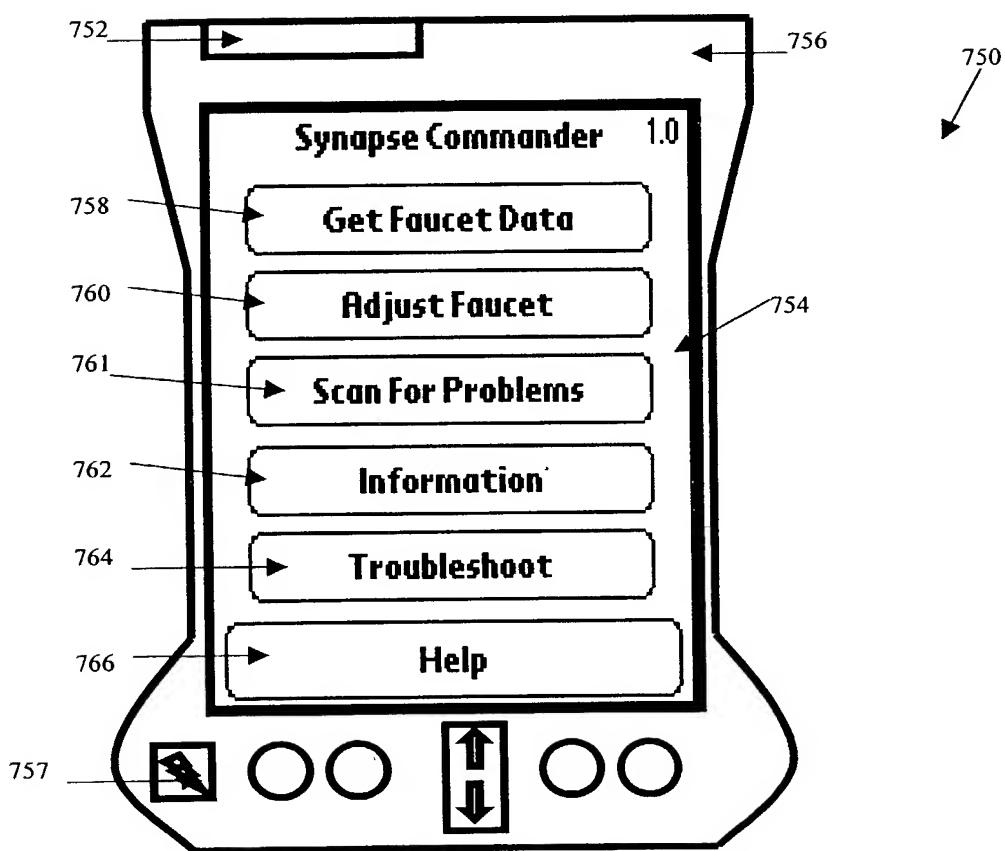


FIG. 17

Attorney Docket No.. 00-0895.26/US  
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Serial No. 10/035,370  
Inventor: Patterson, et al.  
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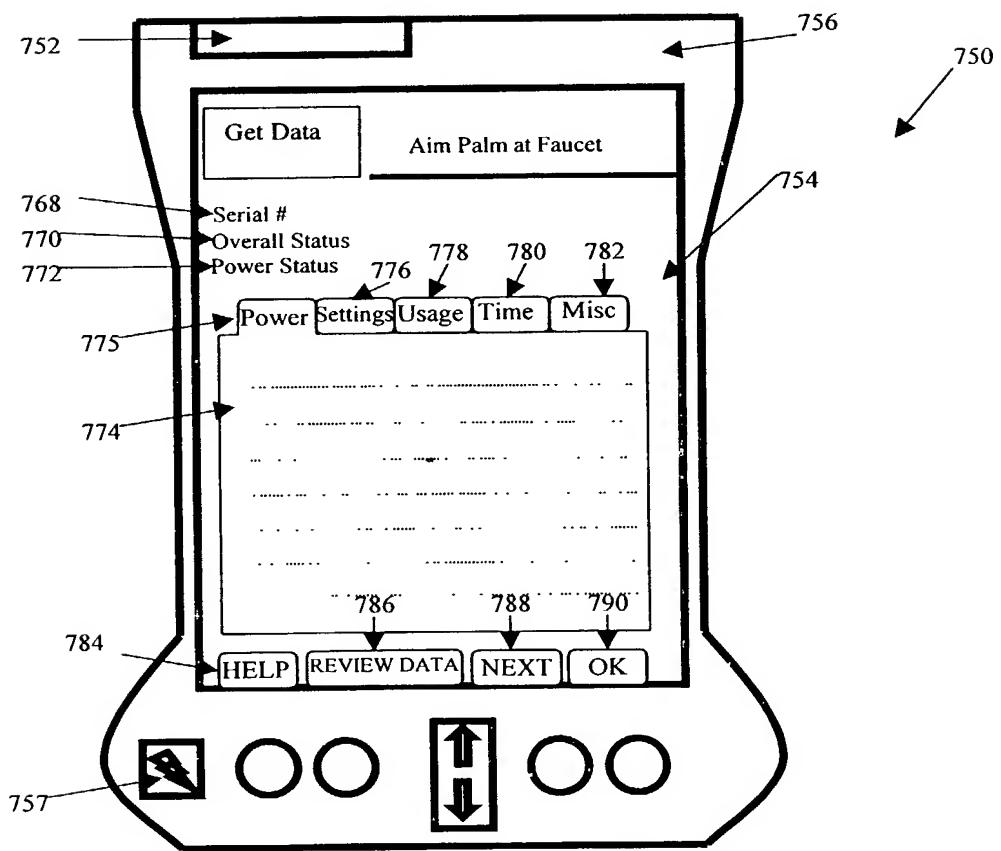


FIG. 18

Attorney Docket No.. 00-0895.26/US  
*System and Method for Wireless Data Exchange Between an Appliance and a Handheld Device*  
Filed 10/035,370  
Inventor, Patterson, et al.  
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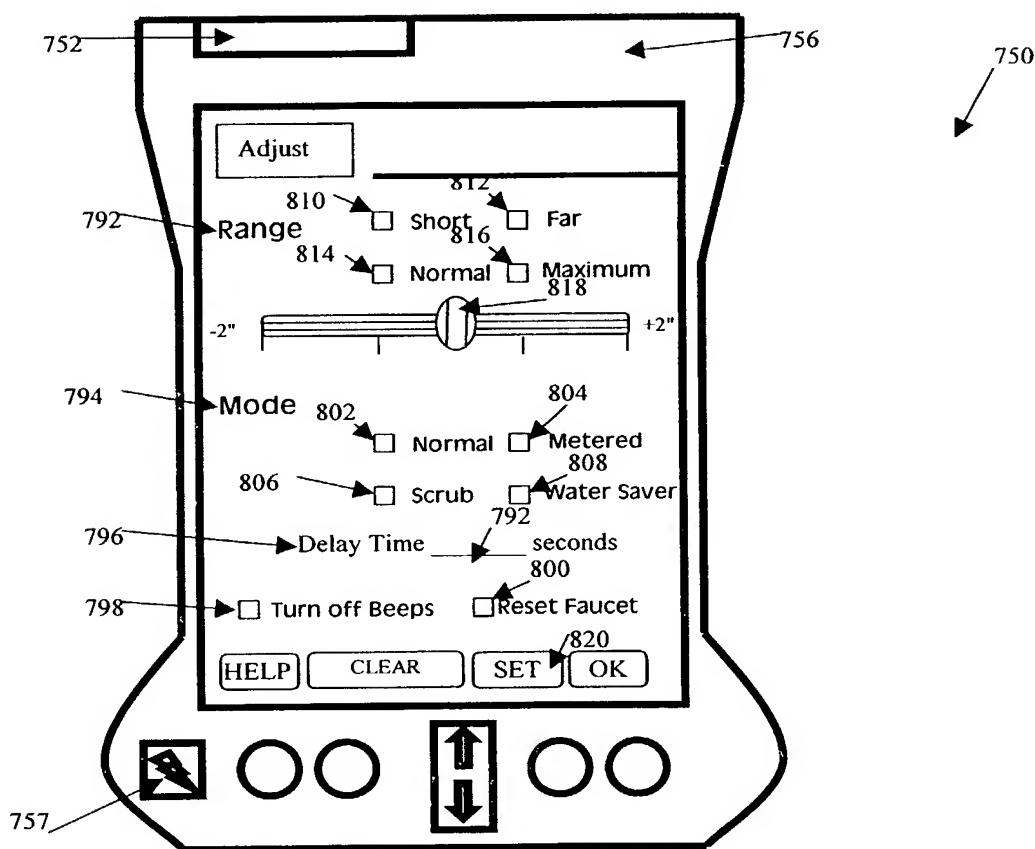


FIG. 19

Attorney Docket No.: 00-0895.26/US  
*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*  
10/035,370  
Inventor: Patterson, et al.  
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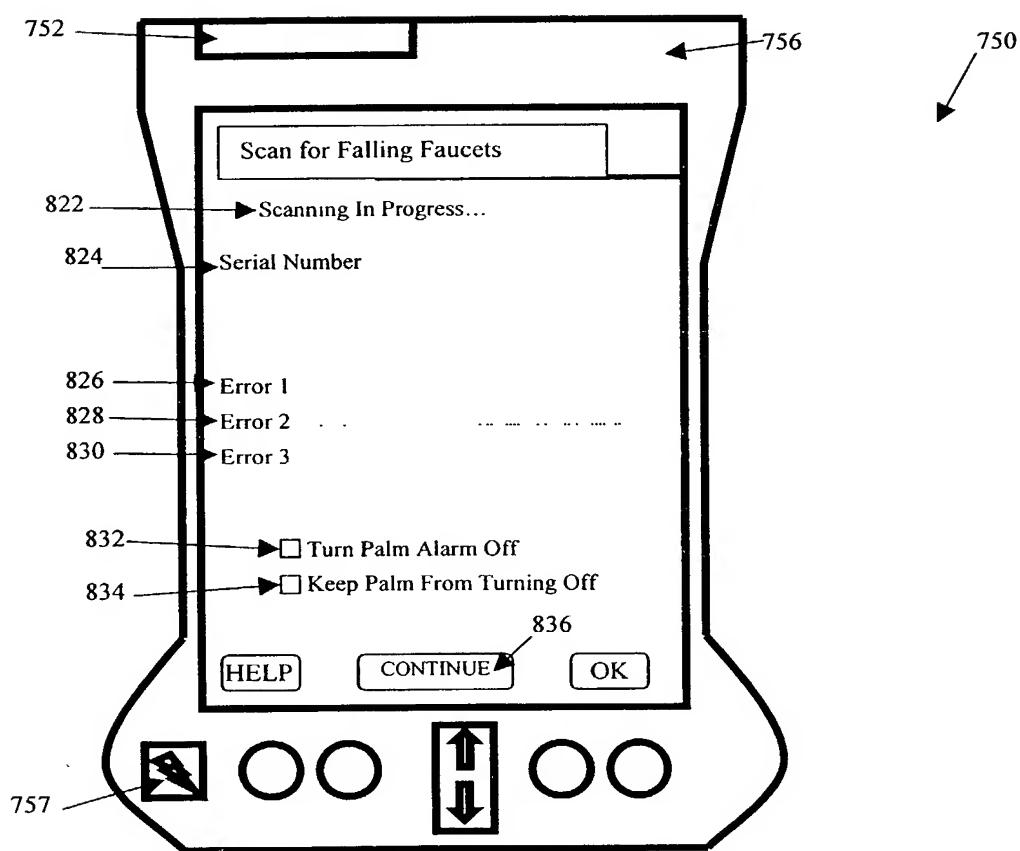
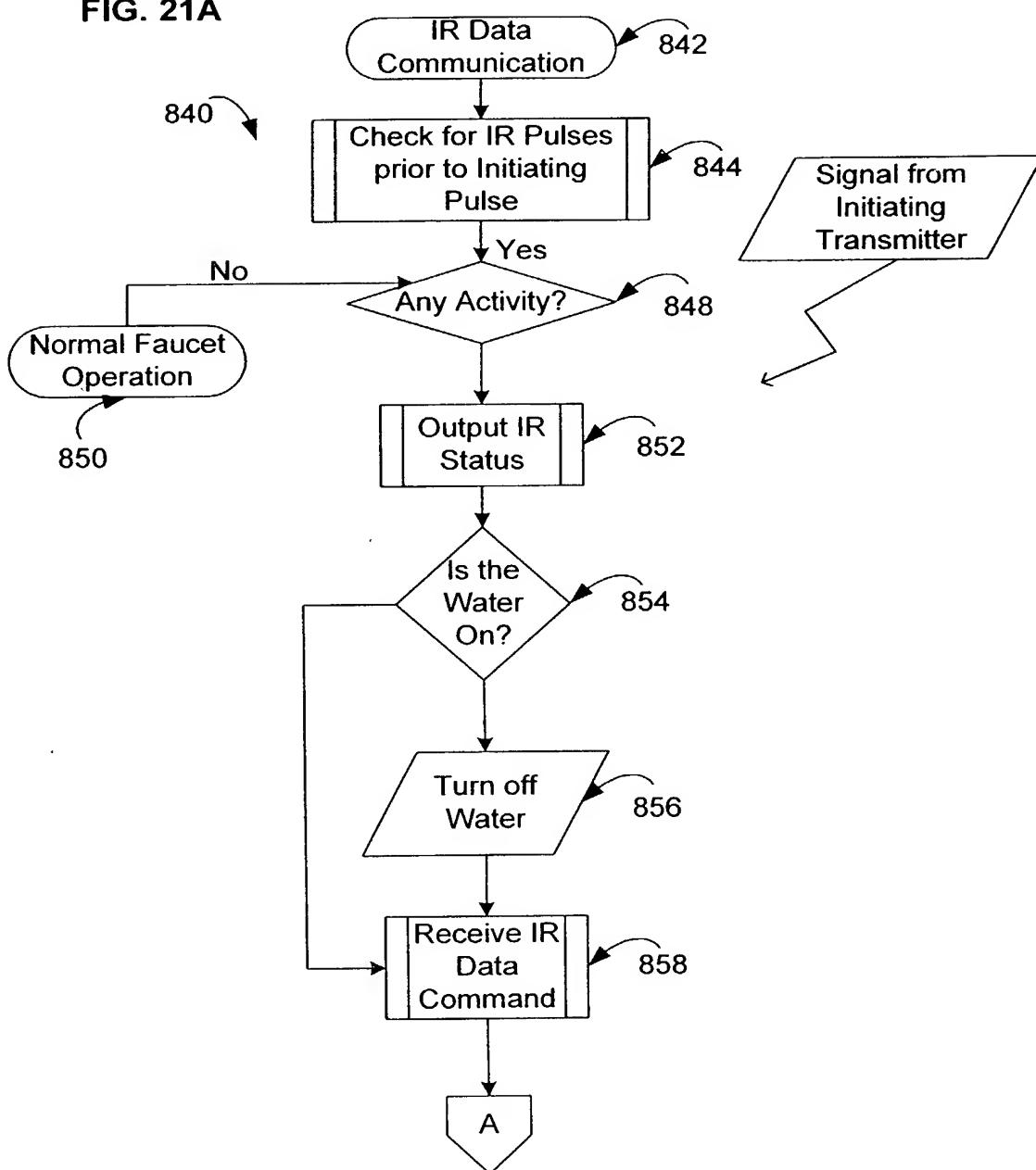


FIG. 20

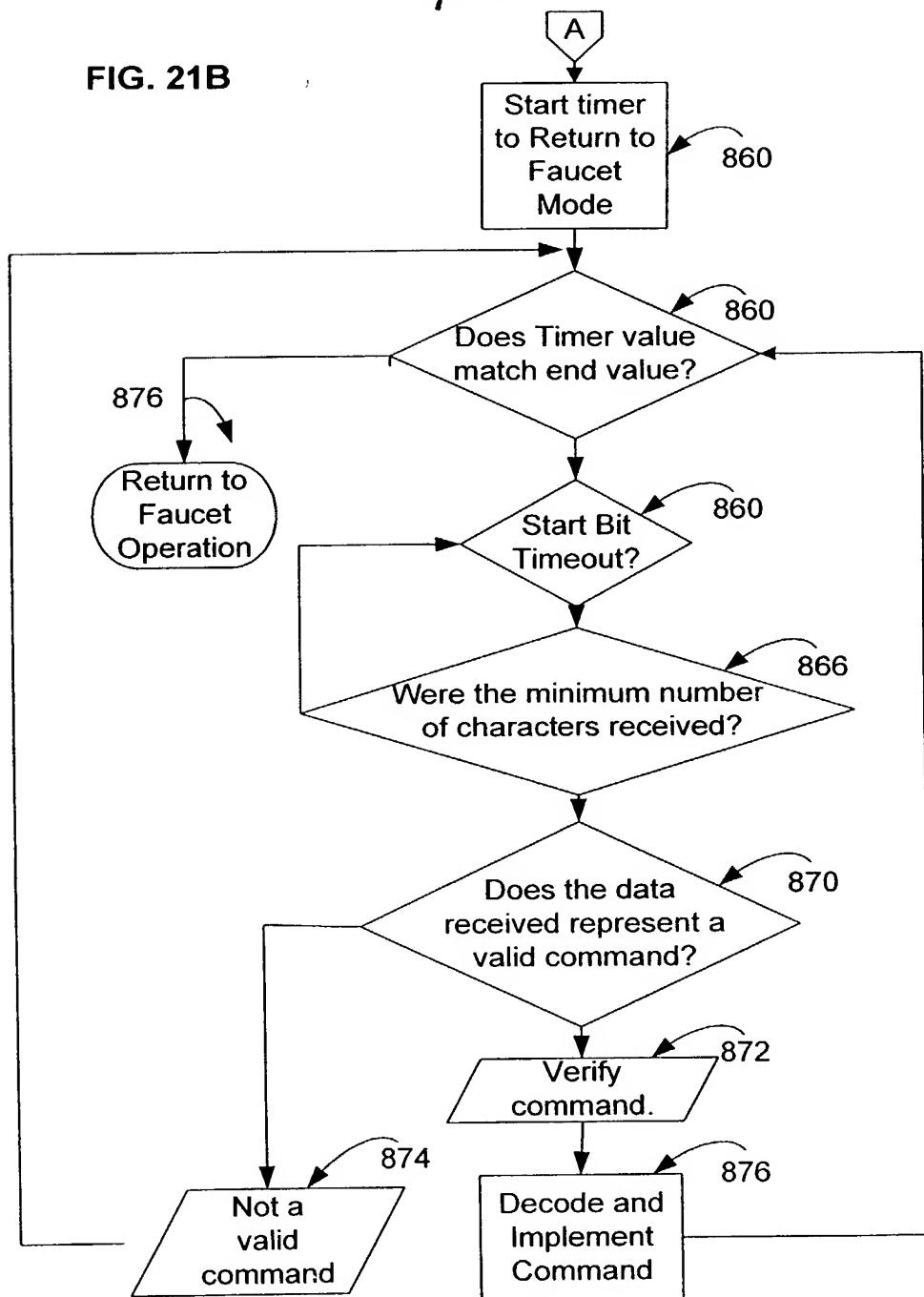
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FIG. 21A



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FIG. 21B



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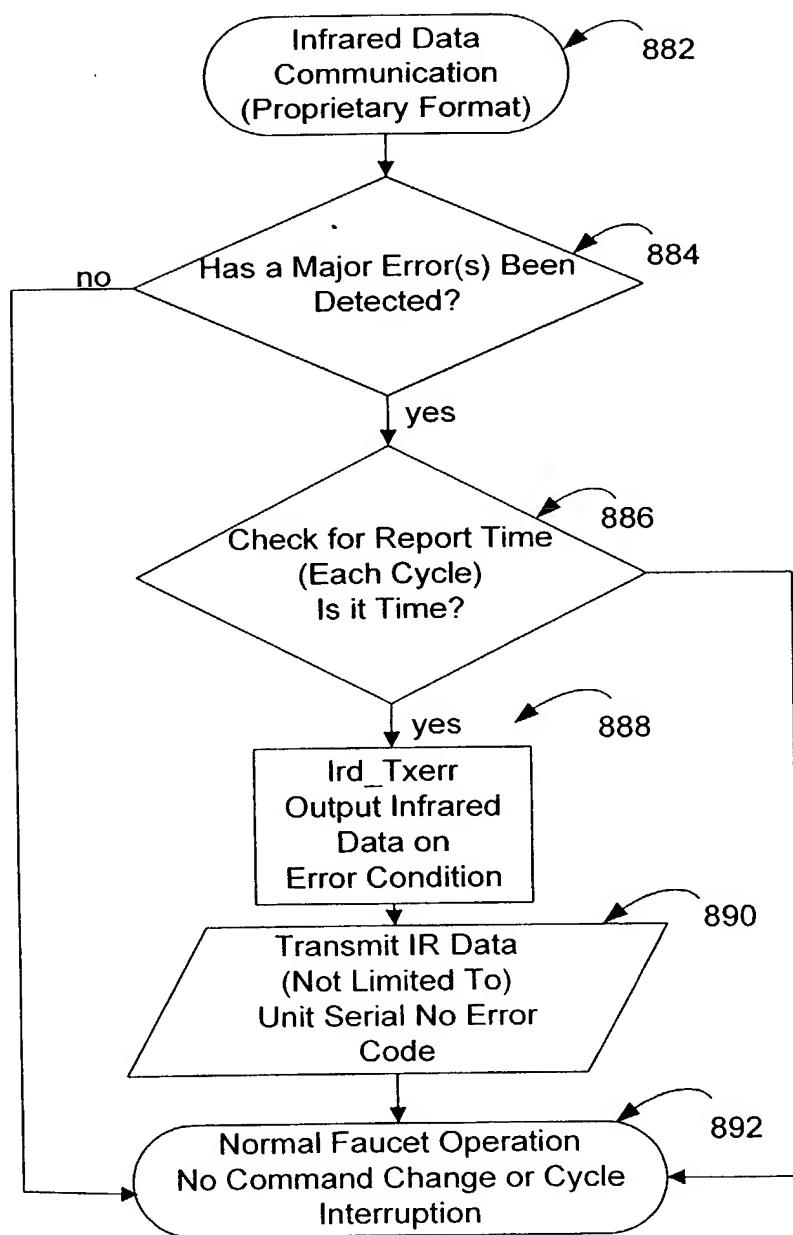


FIG. 22

Attorney Docket No.: 00-0895.26/US

*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*

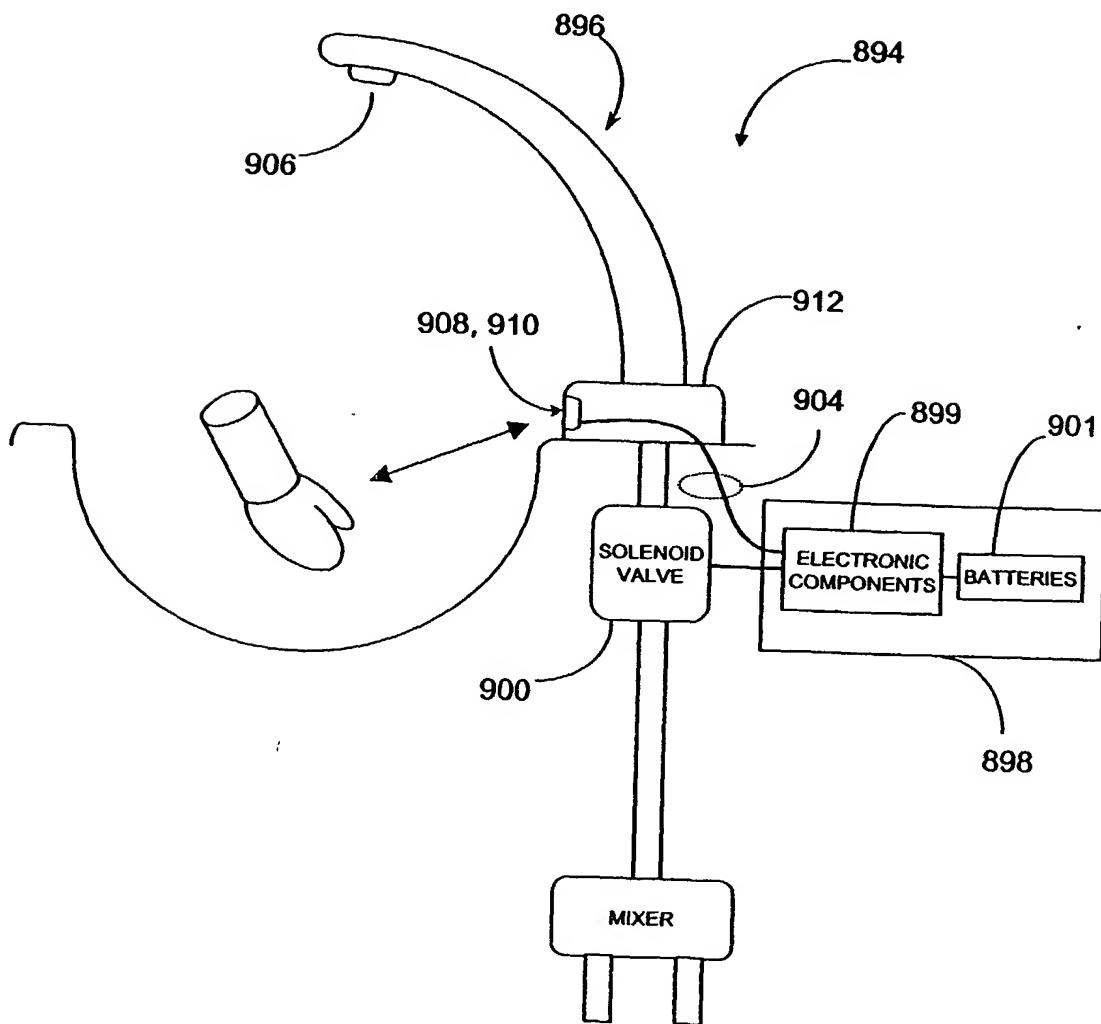
U.S. 10/035,370

Inventor: Patterson, et al.

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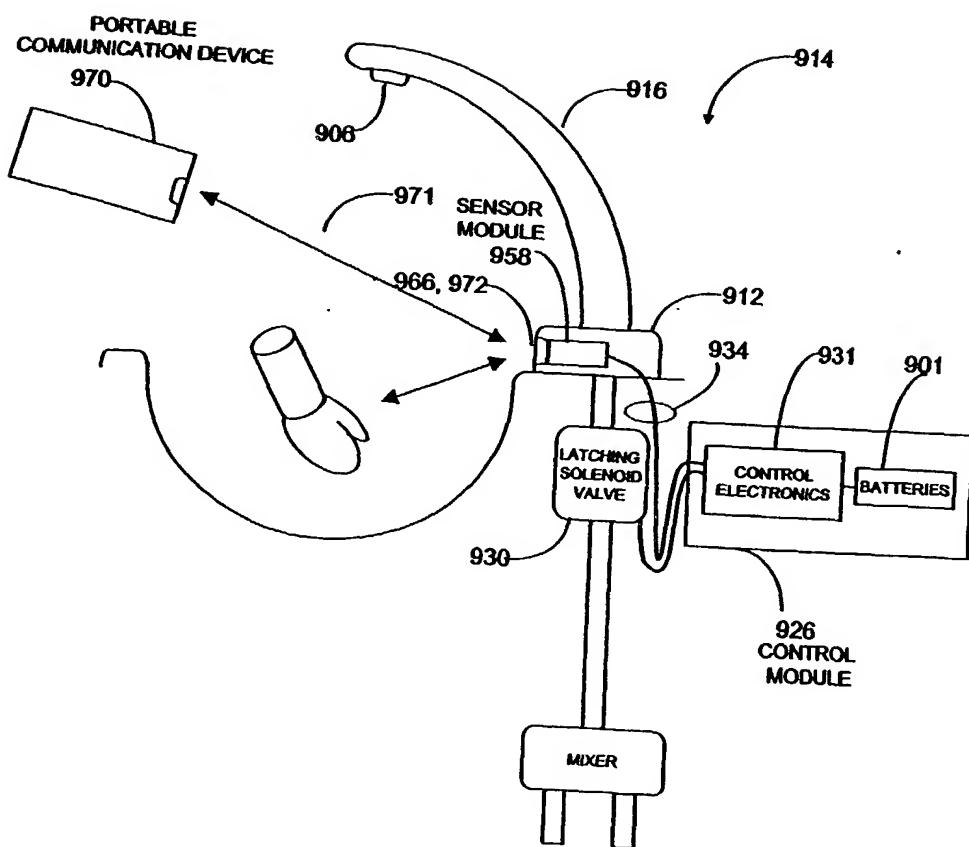
**FIG. 23  
PRIOR ART**



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*System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device*  
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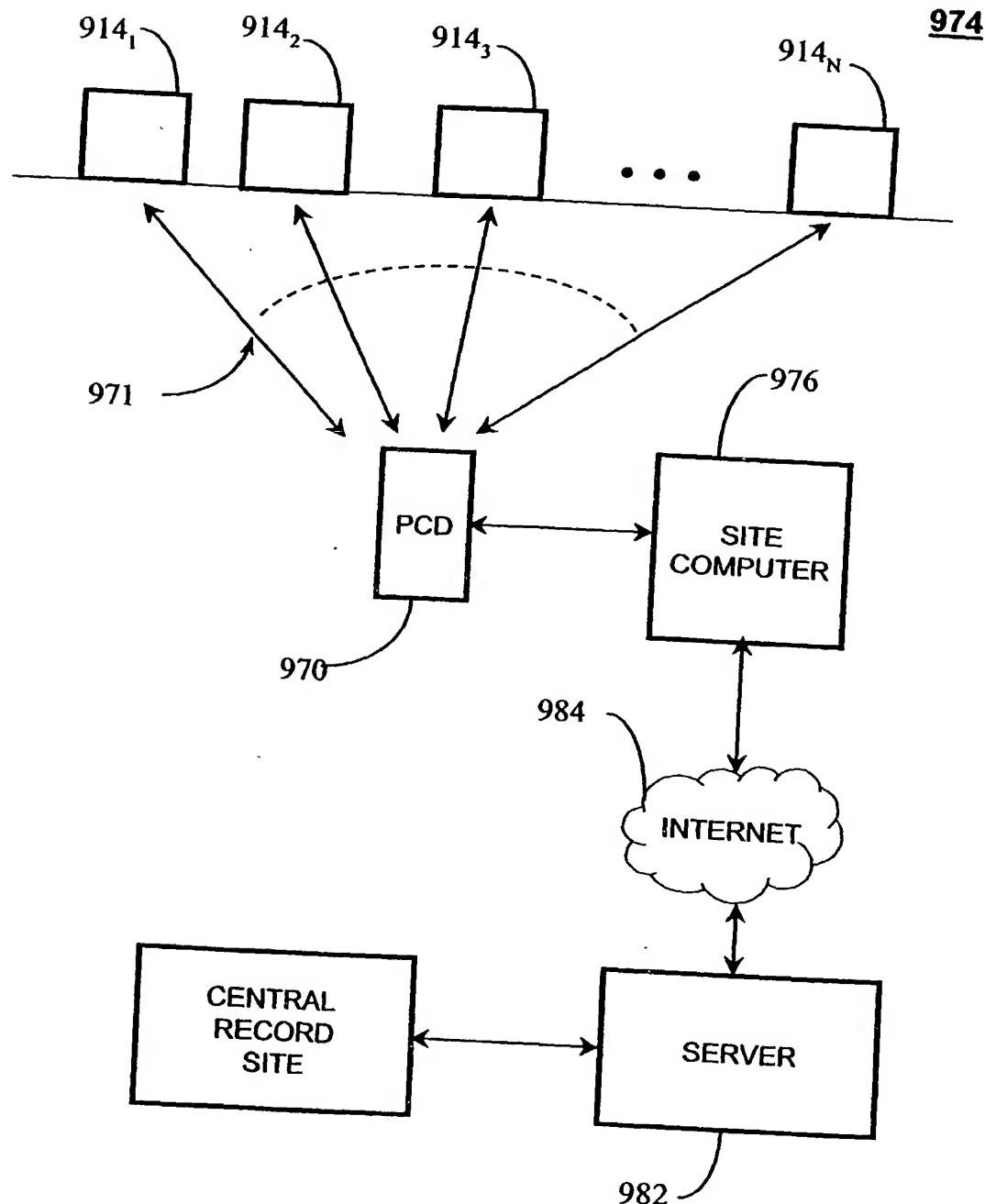
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FIG. 24



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FIG. 25



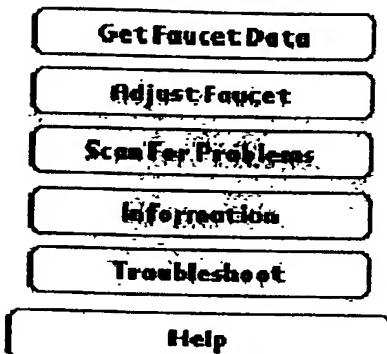
Attorney Docket No.: 00-0895.26/US  
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 Inventor: Patterson, et al.  
 Do Te Kim Phone: (256) 535-1100

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FIG. 26a

Synapse Commander



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FIG. 26b

Information

- Review & Modify Your Data
- Reference Guide
- Field Replacement Parts
- Accessories
- Contact Synapse
- Contact Chicago Faucets

Help

OK

989

FIG. 26c

Adjust

Range	<input type="checkbox"/> Short	<input type="checkbox"/> Far		
	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Maximum		
Mode	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Metered		
	<input type="checkbox"/> Scrub	<input type="checkbox"/> Water Saver		
	<input type="button" value="Help"/>	<input type="button" value="Set"/>	<input type="button" value="Other"/>	<input type="button" value="OK"/>

FIG. 26d

Get Status - film Palmjet Faucet

Serial # 00000000  
 Overall Status Low Battery  
 Power Status Dead

Power Settings	Usage	Location	Misc
Unloaded Volts 0. volts			
Loaded Volts 0. volts			
Time In Use 0 hours			
Replace Battery Date 1/20/03			

FIG. 26e

Field Replacement Parts Galileo

Mechanical Parts

Low Spout	570-001KJKCP
Gooseneck Spout	GN2AH8KCP
Gooseneck Flange	170-202KJKCP
1" Coverplate	570-003KJKCP
8" Coverplate	570-008KJKCP
4" Coverplate/Side-mix	550-018KJKCP
8" Coverplate/Side-mix	570-135KJKCP

FIG. 26f

Reference Guide

MODE DEFINITIONS

NORMAL-Unit turns off 15 seconds after hands are removed.

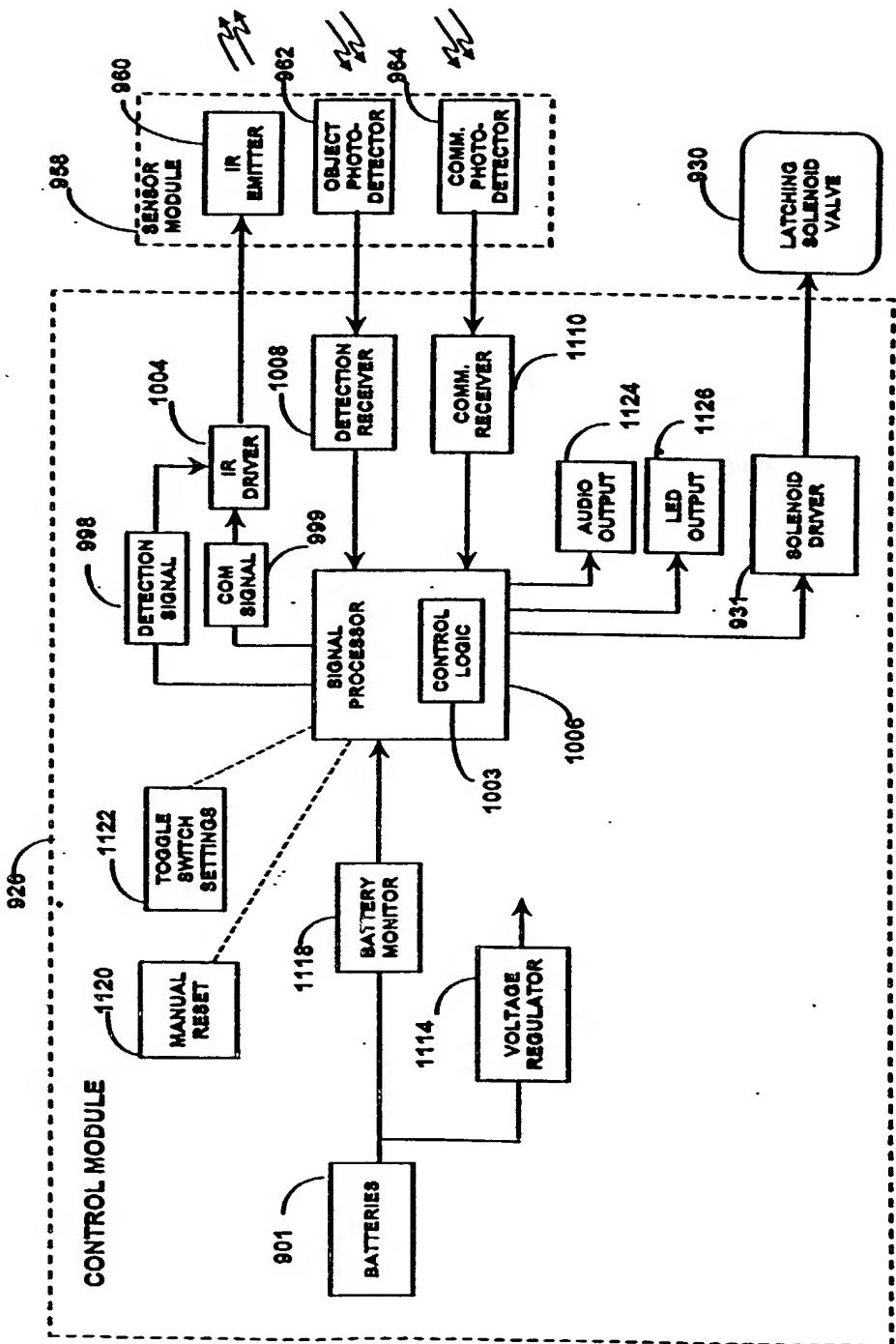
METERED-Unit stays on for 10 seconds and then turns off.

SCRUB-Unit stays on for 60 seconds after removing hands.

WATER SAVER-Unit stays on 5 seconds and then turns off.

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FIG. 27



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FIG. 28

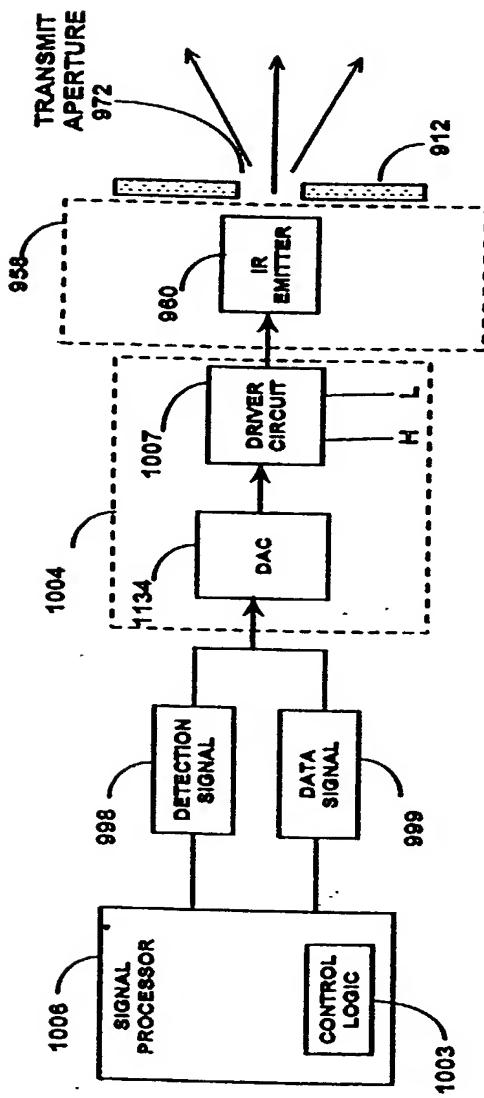
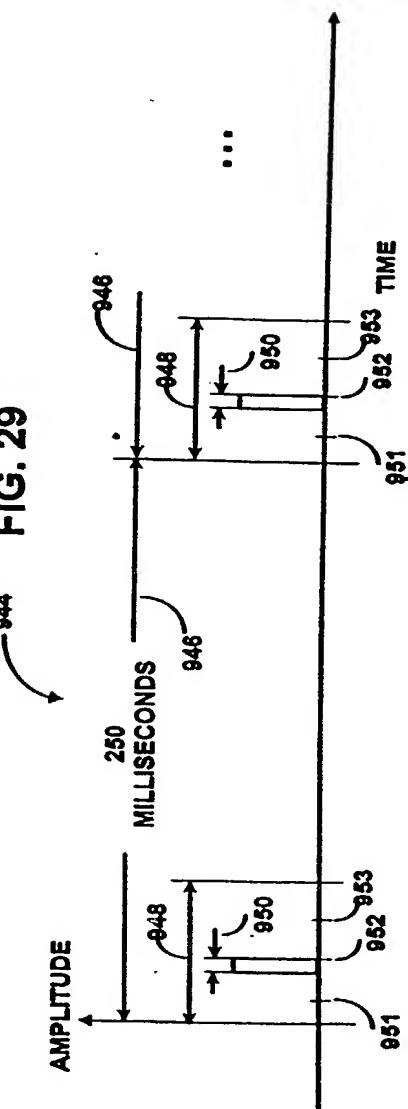


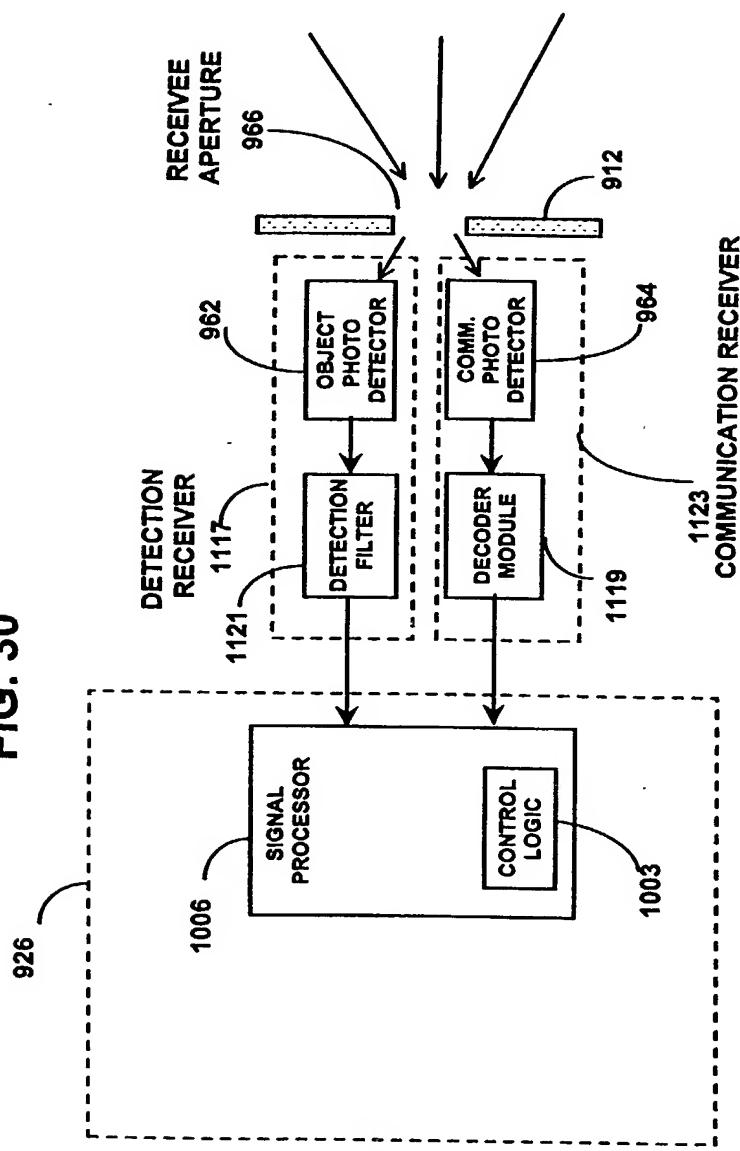
FIG. 29



Attorney Docket No : 00-0895.26/US  
System and Method for Wireless Data Exchange Between An  
Appliance and a Handheld Device  
Serial No. 10/035,370  
Inventor: Patterson, et al.  
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FIG. 30



Attorney Docket No. 00-0895.26/US  
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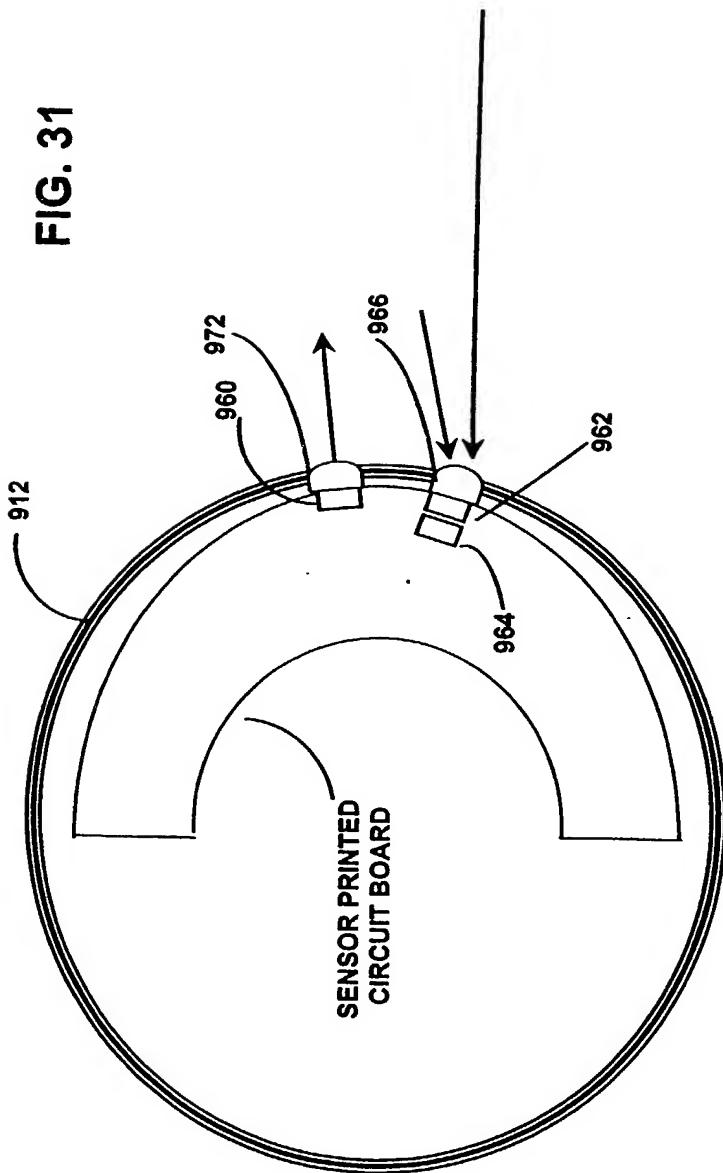
File No. 10/035,370

Inventor: Patterson, et al.

Do Ie Kim Phone. (256) 535-1100

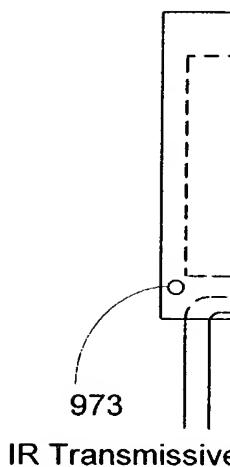
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FIG. 31

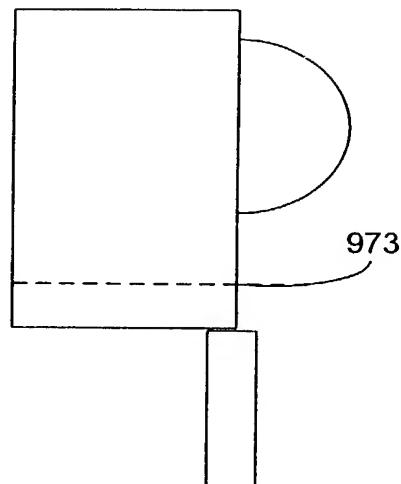


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**FIG. 32a**



**FIG. 32b**



**FIG. 32c**

